

NOTICE INVITING TENDER (NIT) Rev 01

TENDER NO. TGPWCC0026

BHARAT HEAVY ELECTRICALS LIMITED SOLAR BUSINESS DIVISION, BENGALURU TENDER DOCUMENT

Name: PRAGADEESH T G

Designation: Sr. Manager/WCC

BHEL-SBD, Bengaluru



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TENDER NO. TGPWCC0026

NOTICE INVITING TENDER

- 1. BHEL/ SBD (A Govt. of India Undertaking) invites Tender for engaging a Contractor for "Civil works for proposed 300MW Rengali floating solar project at Odisha for NHPC."
- 2. The enquiry has been floated through e-procurement and offers shall be accepted through e-procurement only. BHEL shall neither entertain offers through hard copy nor provide any due date extension on account of the same. Interested vendors who do not have login ID and password are requested to register themselves on https://eprocurebhel.co.in through "Online Bidder Enrolment" link available on the portal.
- 3. Class-III, SHA2 2048 BIT Signing & Encryption, Digital Signature Certificate (DSC) is required for bidders for authentication purpose (log in and bid submission). Vendors, who do not possess the DSC, are requested to obtain the same. The procedure for obtaining DSCs is detailed in the "Seller Manual" available on the above-mentioned website.

Tender reference No: TGPWCC0026

For all clarifications/ issues related to the tender, please contact:

(i) Commercial:

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Prof CNR Rao Circle, IISc Post, Malleswaram, Bengaluru- 560 012

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(ii) Technical:

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TENDER DOCUMENT PART – A VOLUME - I

1.	GENERAL INFORMATION
2.	SCOPE OF WORK
3.	PRE- QUALIFICATION CRITERIA
4.	OTHERS ELIGIBILITY CRITERIA
5.	PRICE VARIATION CLAUSE
6.	PAYMENT TERMS
7.	ANNEXURES



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1.	General Information		
1.1.	Tender Reference Number:	TGPWCC0026	
1.2.	Tender Name:	Civil works for proposed 300MW Rengali floating solar project at Odisha for NHPC	
1.3.	Tender System	Single Stage, Two Part Bid Part – A: Techno-Commercial & PQR Part – B: Price Bid	
1.4.	Tender Type	Works Contract	
1.5.	Estimated Value of Contract	INR 2,33,29,072.00 (Indian Rupees Two crores, thirty-three lakhs, twenty-nine thousand and seventy two only) Plus applicable GST Extra	
1.6.	Duration of Contract	6 months from Work order date	
1.7.	Qualifying Requirement	As per NIT Terms & Conditions	
1.8.	Earnest Money Deposit to accompany Tender	INR 2,00,000.00 (Indian Rupees two lakhs only)	
1.9.	Security Deposit	10% of the contract value.	
1.10.	Cost of Tender documents	NIL	
1.11.	Issue of tender documents	As per Enquiry / RFQ / Notification on www.bhel.com & https://eprocurebhel.co.in	
1.12.	Pre- BID Meeting	As per Enquiry / RFQ / Notification on www.bhel.com & https://eprocurebhel.co.in	
1.13.	Last date for Issue of tender documents	As per Enquiry / RFQ / Notification on www.bhel.com & https://eprocurebhel.co.in	
1.14.	tender doc	As per Enquiry / RFQ / Notification on www.bhel.com & https://eprocurebhel.co.in	
1.15.	Date and time of opening of Tender (Part-A)	As per Enquiry / RFQ / Notification on www.bhel.com & https://eprocurebhel.co.in	
1.16.	Tender Submission Place	Online at https://eprocurebhel.co.in	
1.17.	Tender Opening Place	Online at https://eprocurebhel.co.in	
1.18.	Dealing Officer (For any Clarifications)	Pragadeesh T G Sr. Manager – Works Contract Cell Contact No.: 080-2218-2232 Email: pragadeeshtg@bhel.in	
1.19.		BHEL shall be resorting to Reverse Auction (RA) (Guidelines for Reverse Auction – 2021 as available	



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		Reverse Auction	on www.bhel.com) for this tender. RA shall be conducted among the techno commercially qualified bidders. Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered for RA. In case any bidder(s) do(es) not participate in online Reverse Auction, their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking.	
	1.20. Bid participation note		Firms debarred/Banned by BHEL are not eligible to participate in the tender. Any bidder on whom Show Cause Notice / Risk & Cost action initiated/implemented in last 2 years from tender opening date are not eligible for participation in this tender. The tender envelope submitted by such a firms/ bidder will not be considered for evaluation and no communication in this regard will be entertained.	
2.		SCOPE OF WORK		
	2.1.	As per Annexure 1		
3.		PRE- QUALIFICATION CRITERIA		
		3.1. Experience of having successfully completed RCC building and structural steel works during last 7 years from the date of tender notice.		
		<u>-</u>	d works mentioned in sl no:3.1 and each costing not less 0% of estimate value (INR 93,31,629.00 excl GST) in the tender notice.	
			OR	
	3.1.	· · · · · · · · · · · · · · · · · · ·	rks mentioned in sl no:3.1 and each costing not less than nated value (INR 1,16,64,536.00 Excl GST) mentioned er notice.	
			OR	
		c) One similar completed work mentioned in sl no:3.1 and each costing not less than an amount equal to 80% estimated value (INR 1,86,63,258.00 Excl GST) mentioned against each work in the tender notice		
		Pre-Qualification Criteria: (Fi	inancial)	
	3.2.	Average Annual Financial turnover during the last 3 years ending 31st March of the previous financial year, should be at least INR 69,98,722.00/- excl. of GST .		
			profit& Loss account OR Turn over Certificate from a closed for the FY 20-21, 21-22 and 22-23.	



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OTHERS ELIGIBILITY CRITERIA The bidder shall also mention the PAN Number issued by Income Tax Department,
The bidder shall also mention the PAN Number issued by Income Tax Department.
copy of the PAN card or PAN number allotment letter shall be submitted along with the tender documents.
. A copy of GST certificate to be submitted.
Bidder to submit declaration for obtaining the essential license under Contract Labor (Regulation & Abolition) Act 1970 after award of work. Form-5 will be issued to successful bidder by BHEL for applying the license. Successful bidder has to get the endorsement in the license for the areas and nature of work which they will be performing as part of the contract.
Bidder should have independent ESI Employer code under ESI Act 1948. Photocopy of letter from ESI Corp. to establish that bidder is independently registered as an employer under ESI to be produced.
Bidder should have independent PF code under Employee Provident Fund and Miscellaneous Provisions Act 1952. Photocopy of letter from PF Commissioner's Office to establish that bidder is independently registered as an employer PF to be produced.
There should be no litigation or charge under investigation / enquiry / trial against the Tenderer, or conviction in a court of law or suspension or blacklisting by any organization on any ground. During the course of work, if any such information comes to light, the contract may be terminated.
The opinion / decision of BHEL regarding the bid shall be final and conclusive. BHEL reserves the right to reject any or all the bids at any time without assigning any reason.
In case the bidder has a relative employed in BHEL, the authority inviting tender shall be informed of this fact in writing at the time of submission of tender, failing which the tender may be disqualified, or if such fact comes to light subsequently, the contract may be terminated.
If the bidder gives wrong information in his tender or creates conditions favorable for the acceptance of his tender, BHEL reserves the right to reject such tender at any stage.
PRICE VARIATION CLAUSE: Not Applicable
PAYMENT TERMS
Payment terms shall be as per GCC clause 2.6.
Bills will be prepared after taking joint measurement as per actual work done at site.
Payment time line shall be 45 days for Micro &Small Enterprises (MSEs),60 Days for Medium Enterprises and 90 days for Non-MSME bidders from date of certification of invoice/bill.
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6.2.	GST will be reimbursed to the contractor after the contractor pays GST, files return and submits a proof of the same to BHEL. GST TDS will be done @ 2%. Income Tax TDS will be done as applicable.
7.	Annexures
7.1	Detailed Scope of Work – Annexure I
7.2	TECHNO-COMMERCIAL BID APPLICATION- ANNEXURE – II
7.3	Bidder Information – Annexure III
7.4	CHECKLIST OF ENCLOSURES – Annexure IV
7.5	Declaration by Bidder-I – Annexure V
7.6	Declaration by Bidder-II – Annexure VI
7.7	Unpriced BID- Annexure VII
7.8	PPP-MII Format- Annexure VIII
7.9	Deviations Sheet- Annexure IX
7.10	Border Sharing format
7.11	Conflict of Interest among Bidders/ Agents



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7.1ANNEXURE – I: SCOPE OF WORK

Name of work: "Civil works for proposed 300MW Rengali floating solar project at Odisha for NHPC."

01 NO.PEB STORE BUILDING (150 SQM) + 3nos of security cabin foundation

Sl.No.	Item Description	Quantity	Units
1.001	01 NO. PEB STORE BUILDING (150		
	SQM) + 3nos of security cabin		
	foundation		
1.002	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 2km and lift upto 1.5m, disposed earth to be levelled and neatly dressed.all type of soil as per direction of Engineer in charge.	298.00	Cum
1.003	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 2km and lift upto 1.5m, disposed earth to be levelled and neatly dressed.in soft rock complete as per direction of Engineer in charge.	100.00	Cum
1.004	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 2km and lift upto 1.5m, disposed earth to be levelled and neatly dressed in Hard rock complete as per direction of Engineer in charge.	50.00	Cum
1.005	Boring (with DTH/drilling machine) in any kind of soil/rock, providing and installing bored cast-in-situ reinforced/Plain cement concrete piles of grade M-30 of specified diameter and length below the pile cap, to carry a safe working load not less than specified, excluding the cost of steel	50.00	Meter



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Sl.No.	Item Description	Quantity	Units
	reinforcement but including the cost of		
	concrete, marking of pile location as per		
	approved drawing with total station		
	machine, boring, with bentonite solution		
	and temporary casing of appropriate length		
	for setting out and removal of same and the		
	length of the pile to be embedded in the pile		
	cap etc. all complete, (Cement Content shall		
	be as per approved mix design by		
	BHEL/Owner) including removal of		
	excavated earth with all lifts and leads		
	(Length of pile for payment shall be		
	measured upto bottom of pile cap). 300 mm		
	dia pile of any depth.		
1.006	Filling available excavated earth/murram		
	(excluding rock) in trenches, plinth, sides of		
	foundations etc. in layers not exceeding		
	20cm in depth, consolidating each deposited	592.60	Cum
	layer by ramming and watering, lead up to 2		
	km and lift upto 1.5 m complete as per		
	direction of Engineer in charge.		
1.007	Providing and laying in position cement		
	concrete of specified grade excluding the		
	cost of centering and shuttering - All work	42.53	Cum
	up to plinth level: 1:3:6 (1 Cement: 3 coarse	42.33	Cuiii
	sand (zone-III) : 6 graded stone		
	aggregate 20 mm nominal size).		
1.008	62mm thick cement concrete flooring with		
	hardener topping under layer 50mm thick		
	cement concrete 1:2:4 and toplayer 12mm		
	thick cement hardener consisting mix 1:2 (1	177.00	cam
	cement+2 stone aggregate 6mm) by	177.00	sqm
	volumne, hardening compound mixed @2		
	litre per 50kg of cement or as per		
	manufacurer's spec.		
1.009	Providing and laying in position cement		
	concrete of specified grade excluding the		
	cost of centering and shuttering - All work		
	up to plinth level: 1:2:4 (1 cement : 2 coarse	5.00	Cum
	sand: 4 graded stone aggregate 20/10mm	5.00	Cum
	mm nominal size) complete as per direction		
	of Engineer in charge. All work up to plinth		
	level		



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Sl.No.	Item Description	Quantity	Units
1.010	Providing and laying in position machine batched and machine mixed design mix M-30 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. All works upto plinth level	44.49	Cum
1.011	Providing and laying in position machine batched and machine mixed design mix M-30 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. All works above plinth level upto floor V level	5.00	Cum
1.012	Centering and shuttering including strutting, propping etc. and removal of form for :Foundations, footings, pedestal, bases of columns etc. for mass complete as per direction of Engineer in charge.	136.40	sqm
1.013	Centering and shuttering including strutting, propping etc. and removal of form for all heights: plinth beams, Tie/Lintel beams, girders, bressumers and cantilevers FOR ANY HEIGHT	50.60	sqm
1.014	Centering and shuttering including strutting, propping etc. and removal of form for all heights: Walls (any thickness)/cable trench wall including attached pilasters, butteresses, plinth and string courses etc.	114.76	sqm



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Sl.No.	Item Description	Quantity	Units
1.015	Supplying and filling in plinth with sand/murrum under floors, including watering,ramming, consolidating and dressing complete.	26.28	Cum
1.016	Dry stone soling average 22.5 cm thick including supply of stones, ramming with sand and preparing surface complete.	500.00	sqm
1.017	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 up to plinth level in all shapes and sizes in : Cement mortar 1:4 (1 cement : 4 coarse sand)	20.00	cum
1.018	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 up to plinth level. Cement mortar 1:4 (1 cement :4 coarse sand)	5.00	sqm
1.019	12 mm cement plaster of mix: 1:6 (1 cement: 6 coarse sand): INTERNAL PLASTER	500.00	sqm
1.020	Providing and fixing aluminium work for doors, windows, ventilatorsand 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. (Glazing, paneling and dash fasteners to be paid for separately) :Powder coated aluminium (min thick 50 micron)	150.00	kg
1.021	For shutters of doors, windows & ventilators including providing and fixing hinges/pivots and making provision for fixing of	50.00	kg



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Sl.No.	Item Description	Quantity	Units
	fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)		
	Powder coated aluminium (min thick 50		
1.022	micron) Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade l Type ll, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-charge. Prelaminated particle board with decorative lamination on both sides	9.00	sqm
1.023	Kota stone slabs 20 mm thick in risers of steps, skirting, dado andpillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	5.00	sqm
1.024	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto all level. Thermo-Mechanically Treated bars of grade Fe-500 with corrosion inhibitor/CRS	4949.35	kg
1.025	Making plinth protection 75mm thick of cement concrete 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	107.00	sqm
1.026	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural	30.00	sqm



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Sl.No.	Item Description	Quantity	Units
	drawings and the directions of Engineer-in-		
	charge. (Cost of aluminium snap beading		
	shall be paid in basic item): With float glass		
	panes of 4.0 mm thickness)		
1.027	Providing and fixing glazing in aluminium		
	door, window, ventilator shutters and		
	partitions etc. with EPDM rubber / neoprene		
	gasket etc. complete as per the architectural	9.00	sqm
	drawings and the directions of Engineer-in-	, , , ,	74
	charge . (Cost of aluminium snap beading		
	shall be paid in basic item): With float glass		
1.020	panes of 5.00 mm thickness.		
1.028	Structural steel work riveted, bolted or		
	welded in built up sections, trusses and	0000 00	1
	framed work, including cutting, hoisting,	8000.00	kg
	fixing in position and applying a priming		
1.020	coat of approved steel primer all complete.		
1.029	Steel work welded in built up sections/		
	framed work, including cutting,		
	hoisting, fixing in position and applying a		
	priming coat of approved steel primer using	4000.00	kg
	structural steel etc. as required. In stringers,		
	treads, landings etc. of stair cases, including		
	use of chequered plate wherever required, all		
1.030	complete Painting with synthetic enamel paint of		
1.030	approved brand and manufacture to give an	300.00	gam
	even shade: Two or more coats on new work	300.00	sqm
1.031	Random rubble masonry with hard stone in		
1.031	foundation and plinth including levelling up		
	with cement concrete 1:6:12 (1 cement : 6		
	coarse sand : 12 graded stone aggregate 20	80.00	cum
	mm nominal size) upto plinth level with :	00.00	Cuiii
	Cement mortar 1:6 (1 cement : 6 coarse		
	sand)		
1.032	Providing and laying damp-proof course		
1.032	40mm thick with cement concrete 1:2:4 (1		
	cement : 2 coarse sand (zone-III): 4 graded		
	stone aggregate 12.5mm nominal size) Extra	25.00	
	for providing and mixing water proofing		sqm
	material in cement concrete work in doses		
	by weight of cement as per manufacturer's		
	specification. Providing & applying a coat of		



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Sl.No.	Item Description	Quantity	Units
	residual petroleum bitumen of grade of VG- 10 of approved quality using 1.7kg per		
	square metre on damp proof course after		
	cleaning the surface with brushes and finally		
	with a piece of cloth lightly soaked in		
	kerosene oil.		
1.033	Providing and fixing on wall face		
	unplasticised Rigid PVC rain water pipes		
	conforming to IS: 13592 Type A, including		
	jointing with seal ring conforming to IS:	70.00	RM
	5382, leaving 10 mm gap for thermal		
	expansion, (i) Single socketed pipes. 110		
	mm diameter		
1.034	Supplying and fixing rolling shutters		
	(Mechanical gear operated) of approved		
	make, made of required size M.S. laths,		
	interlocked together through their entire		
	length with effective bridge depth of 12mm		
	lath sections, interlocked with each other and		
	ends lock arrangements for inside and		
	outside locking with malleable cast iron clips		
	confirming to IS: 2108 and with mechanical	20.00	sqm
	device chain and crank operation for		
	operating rolling shutters complete,		
	including the cost of providing and fixing		
	necessary fittings and fixtures of adequate		
	strength conforming to IS: 4454 - part 1 and		
	M.S. top cover of required thickness for		
	rolling shutters. 80x1.25 mm M.S. laths with		
	1.25 mm thick top cover		
1.035	Providing and fixing precoated Galvanised		
	PUF sandwich panel roof (size, shape, and		
	pitch of corrugation as approved by Engineer		
	-in- Charge) 70 mm thick panels with		
	desnity 40kg/cum, U- Factor (0.24 to 0.28)		
	and R Value (3.95-3.41) satisfying the		
	specification of ECBC Code (Energy	230.00	Sqm
	Conservation Building Code) prescribed by		
	Government of India. The total coated		
	thickness with zinc coating 120 gsm 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. Sheet		



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Sl.No.	Item Description	Quantity	Units
	should have protective guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length upto 12metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling/self tapping screws of size (5.5x 55mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required as per the directions of E-in-C. including fixing cap for the exposed end of sandwich PUF sheet including cost of material and labour all complete		
1.036	Providing and fixing precoated Galvanised PUF sandwich panel side sheets (size, shape, and pitch of corrugation as approved by Engineer -in- Charge) 60 mm thick panels with density 40kg/cum, U- Factor (0.24 to 0.28) and R Value (3.95-3.41) satisfying the specification of ECBC Code (Energy Conservation Building Code) prescribed by Government of India. The total coated thickness with zinc coating 120 gsm 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. Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length upto 12metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling/self tapping screws of size (5.5x 55mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required as per the directions of E-in-C. including fixing cap for the exposed end of sandwich PUF sheet including cost of material and labour all complete	400.00	Sqm



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1.037	FENCE (500 m) AND MAIN GATE		
1.038	Boring (with DTH/drilling machine) in any kind of soil/rock, providing and installing bored cast-in-situ reinforced/Plain cement concrete piles of grade M-25 of specified diameter and length below the pile cap, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of concrete, marking of pile location as per approved drawing with total station machine, boring, with bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. all complete, (Cement Content shall be as per approved MIX DESIGN by BHEL/Owner) including removal of excavated earth with all lifts and leads (Length of pile for payment shall be measured upto bottom of pile cap).300 mm dia piles any depth.	120.00	RM
1.039	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth.1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 2km and lift upto 1.5m, disposed earth to be levelled and neatly dressed.all type of soil as per direction of Engineer in charge.	200.00	cum
1.040	Filling available excavated earth/murram (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 2 km and lift upto 1.5 m complete as per direction of Engineer in charge.	100.00	cum
1.041	Providing and fixing G.I. chain link mesh fabric fencing of required width in mesh size 50X 50 MM Made of G.I. wire of dia. 4 mm, nuts, bolts and washers as required	1,050.00	sqm



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	both ends twisted conforming to IS 2721		
	complete as per the direction of Engineer-		
	in-charge.		
1.042	Painting on Angles and steel structures		
	with epoxy based synthetic enamel paint of		
	approved brand and manufacture of		
	Siemens Grey RAL - 7032. Thickness of	250.00	sam
	paint shall be not less than 75 micron: Two	230.00	sqm
	or more coats on new work of approved		
	brand and manufacture as per direction of		
	Engineer-in -charge.		
1.043	Fencing with post placed at required		
	distance, embedded in cement concrete		
	blocks, every 15th post, last but one end		
	post and corner post shall be strutted on		
	both sides and end post one side only,		
	provided with horizontal lines and two		
	diagonals of barbed wire weighing 9.38 kg		
	per 100 metres (minimum), between the	1,500.00	meter
	two posts fitted and fixed with G.I. staples		
	on wooden plugs or G.I. binding wire tied		
	to 6 mm bar nibs fixed while casting the		
	post (cost of R.C.C. posts, struts, earth work		
	and concrete to be paid for separately):-		
	Payment will be made as per metre cost of		
	total length of barbed wire used.		
1.044	Brick work with clay flyash F.P.S. (non		
	modular) brick of class designation 7.5 in		
	superstructure above plinth level up to floor	65.757	cum
	five level in Cement mortar 1:5 (1 cement :		
	5 coarse sand)		
1.045	Structural Steel work in single section		
	fixing in position and applying a primer	5,167.63	Kg
	coat all complete.		
1.046	Providing and laying in position cement		
	concrete of specified grade excluding the		
	cost of centering and shuttering - All work		
	up to plinth level: 1:2:4 (1 cement : 2 coarse	20.00	C
	sand: 4 graded stone aggregate 20/10mm	30.00	Cum
	mm nominal size) complete as per direction		
	of Engineer in charge. All work up to plinth		
	level		



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Sl.No.	Item Description	Quantity	Units
1.047	12 mm cement plaster of mix : 1:6 (1		
	cement: 6 coarse sand) cement plaster (In	600	sqm
	coarse sand)		
1.048	Finishing walls with water proofing cement		
	paint of required shade : New work (Two or		
	more coats applied @ 3.84 kg/10 sqm all	600	sqm
	complete as per direction of Engineer-in -		
	charge		
1.049	Providing and fixing on wall face		
	unplasticised Rigid PVC rain water pipes		
	conforming to IS: 13592 Type A, including		
	jointing with seal ring conforming to IS:	30	meter
	5382, leaving 10 mm gap for thermal		
	expansion, (i) Single socketed pipe as weep		
	hole.110 mm diameter.		
1.051	CONSTRUCTION OF RCC MAIN		
	CONTROL ROOM BUILDING,		
	PARKING SHED AND OTHER	<u>.</u>	
	ASSOCIATED WORKS		
1.052	Earth work in excavation by mechanical		
	means (Hydraulic excavator) / manual		
	means over areas (exceeding 30cm in		
	depth. 1.5 m in width as well as 10 sqm on		
	plan) including disposal of excavated earth,	620.00	Cum
	lead upto 2km and lift upto 1.5m, disposed		
	earth to be levelled and neatly dressed.all		
	type of soil as per direction of Engineer in		
	charge.		
1.053	Earth work in excavation by mechanical		
	means (Hydraulic excavator) / manual		
	means over areas (exceeding 30cm in		
	depth. 1.5 m in width as well as 10 sqm on	•••	~
	plan) including disposal of excavated earth,	300.00	Cum
	lead upto 2km and lift upto 1.5m, disposed		
	earth to be levelled and neatly dressed.in		
	soft rock complete as per direction of		
1.074	Engineer in charge.		
1.054	Filling available excavated earth/murram		
	(excluding rock) in trenches, plinth, sides of		
	foundations etc. in layers not exceeding	900.00	Cum
	20cm in depth, consolidating each		
	deposited layer by ramming and watering,		
	lead up to 2 km and lift upto 1.5 m		



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Sl.No.	Item Description	Quantity	Units
	complete as per direction of Engineer in		
	charge.		
1.055	Providing and laying in position cement		
	concrete of specified grade excluding the		
	cost of centering and shuttering - All work	75.00	Cum
	up to plinth level: 1:3:6 (1 Cement: 3	73.00	Cum
	coarse sand (zone-III): 6 graded stone		
	aggregate 20 mm nominal size).		
1.056	Providing and laying in position cement		
	concrete of specified grade excluding the		
	cost of centering and shuttering - All work		
	upto floor V level: 1:2:4 (1 cement: 2	60.00	Cum
	coarse sand : 4 graded stone aggregate		
	20/10mm mm nominal size) complete as		
	per direction of Engineer in charge.		
1.057	Providing and laying in position machine		
	batched and machine mixed design mix M-		
	30 grade cement concrete for reinforced		
	cement concrete work, using cement		
	content as per approved design mix,		
	including pumping of concrete to site of		
	laying but excluding the cost of centering,	145.50	
	shuttering, and reinforcement, including	145.50	Cum
	admixtures in recommended proportions as		
	per IS: 9103 to accelerate, retard setting of		
	concrete, improve workability without		
	impairing strength and durability as per		
	direction of Engineer-in-charge. All works		
	upto floor V level		
1.058	Centering and shuttering including		
	strutting, propping etc. and removal of form		
	for :Foundations, footings, bases of	300.00	sqm
	columns etc. for mass complete as per		1
	direction of Engineer in charge.		
1.059	Centering and shuttering including		
1,000	strutting, propping etc. and removal of form		
	for Columns, Pillars, Piers, Abutments,	225.00	sqm
	Posts and Struts complete as per direction		~ 71
	of Engineer in charge. FOR ANY HEIGHT		
1.060	Centering and shuttering including		
1.000	strutting, propping etc. and removal of form	300.00	sqm
	for all heights: Lintels, beams, plinth	200.00	Sq.



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Sl.No.	Item Description	Quantity	Units
	beams, girders, bressumers and cantilevers FOR ANY HEIGHT		
1.061	Centering and shuttering including strutting, propping etc. and removal of form for Suspended floors, roofs, landings, balconies and access platform complete as per direction of Engineer in charge. FOR ANY HEIGHT	420.00	sqm
1.062	Centering and shuttering including strutting, propping etc. and removal of form for all heights: Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	300.00	sqm
1.063	Supplying and filling in plinth with sand/murrum under floors, including watering,ramming, consolidating and dressing complete.	150.00	Cum
1.064	Dry stone SOLING AVERAGE 22.5 cm thick including supply of stones, ramming with sand and preparing surface complete.	270.00	sqm
1.065	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 up to floor V level. Cement mortar 1:4 (1 cement :4 coarse sand)	15.00	sqm
1.066	15 mm cement plaster in two coats under layer 1:4 (1 cement : 4 coarse sand) finished rough with sponge. EXTERNAL PLASTER	675.00	sqm
1.067	12 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand): INTERNAL PLASTER	675.00	sqm
1.068	12 mm cement plaster of mix: 1:4 (1 cement: 4 coarse sand) DRAIN PLASTER	276.00	sqm
1.069	6 mm cement plaster of mix: 1:3 (1 cement: 3 fine sand) CEILING PLASTER	300.00	sqm
1.070	Providing and laying vitrified floor tiles in different sizes (thickness should be 9mm) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 30mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the	300.00	Sqm



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Sl.No.	Item Description	Quantity	Units
	joints with white cement and matching		
	pigments etc., complete. Size of Tile		
	600x600 mm		
1.071	Providing and laying anti skid Glazed		
	Ceramic floor tiles of size 300x300 mm or		
	more (thickness should be 9mm), of 1st		
	quality conforming to IS: 15622, of		
	approved make, in colours as approved by		
	Engineer In-charge, laid on 30 mm thick	24.00	sqm
	cement mortar 1:4 (1 Cement: 4 Coarse		
	sand), jointing with grey cement slurry @		
	3.3kg/ sqm including grouting the joints		
	with white cement and matching pigments		
	etc., complete.		
1.072	Providing and fixing Ist quality ceramic		
	glazed wall tiles conforming to IS: 15622		
	(thickness should be 6mm), of approved		
	make, in all colours, shades in skirting,		
	dados, over 12 mm thick bed of cement	80.00	Sqm
	mortar 1:3 (1 cement : 3coarse sand) and	00.00	bqiii
	jointing with grey cement slurry @ 3.3kg		
	per sqm,including pointing in white cement		
	mixed with pigment of matching shade		
	complete.		
1.073	Cement plaster skirting up to 30 cm height,		
	with cement mortar 1:3 (1 cement : 3 coarse	10.00	sqm
	sand), finished with a floating coat of neat	10.00	Sqiii
	cement. 18 mm thick		
1.074	Kota stone slabs 20 mm thick in risers of		
	steps, skirting, dado and pillars laid on 12		
	mm (average) thick cement mortar 1:3 (1		
	cement: 3 coarse sand) and jointed with	40.00	sqm
	grey cement slurry mixed with pigment to		
	match the shade of the slabs, including		
	rubbing and polishing complete.		
1.075	Providing and fixing 20 mm thick gang saw		
	cut, mirror polished, premoulded and		
	prepolished, machine cut for kitchen		
	platforms, vanity counters, window sills,	4.50	sqm
	facias and similar locations of required size,	1.50	Sqiii
	approved shade, colour and texture laid		
	over 20 mm thick base cement mortar 1:4		
	(1 cement : 4 coarse sand), joints treated		



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Sl.No.	Item Description	Quantity	Units
	with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Granite of any colour and shade.		
1.076	Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth. Granite Stone of approved shade	2.00	sqm
1.077	Providing and applying plaster of paris putty of 2 mm thickness of approved brandover plastered surface to prepare the surface even and smooth complete.	660.00	sqm
1.078	Finishing walls with Acrylic Smooth exterior weather proof paint of required shade: New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior weather proof primer applied @ 2.20 kg/10 sqm) EXTERNAL	900.00	sqm
1.079	Wall painting with acrylic emulsion paint (for Internal walls) of approved brand and manufacture to give an even shade: Two or more coats on new work	1125.00	sqm
1.080	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface: Water thinnable cement primer CEILING	240.00	sqm
1.081	Providing and fixing ISI marked flush door (MDF) shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross	13.50	sqm



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Sl.No.	Item Description	Quantity	Units
	bands and face veneers on both faces of shutters. 35 mm thick including ISI marked Stainless Steel butt hinges with necessary		
1.082	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade l Type ll, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-charge. Prelaminated particle board with decorative lamination on both sides.	15.00	sqm
1.083	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. (Cost of aluminium snap beading shall be paid in basic item): With float/tinted glass panes of 4.0 mm thickness.	24.00	sqm
1.084	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. With float glass panes of 8.00 mm thickness.	15.00	sqm
1.085	Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P. brass/ stainless steel screws @ 200 mm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all	63.75	kg



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Sl.No.	Item Description	Quantity	Units
	complete as per requirement and direction		
	of Engineer-in-charge. (Only weight of grill		
	to be measured for payment).		
1.086	Providing and fixing aluminium tower		
	bolts, ISI marked, anodised (anodic coating		
	not less than grade AC 10 as per IS: 1868)	15.00	each
	transparent or dyed to required colour or	13.00	Cacii
	shade, with necessary screws etc. complete		
	: 250x10 mm.		
1.087	Providing and fixing aluminium handles,		
	ISI marked, anodised (anodic coating not		
	less than grade AC 10 as per IS: 1868)	39.00	each
	transparent or dyed to required colour or	39.00	Cacii
	shade, with necessary screws etc. complete		
	: 125 mm.		
1.088	Providing and fixing aluminium sliding		
	door bolts, ISI marked anodised (anodic		
	coating not less than grade AC 10 as per IS	30.00	each
	: 1868), transparent or dyed to required	30.00	Cacii
	colour or shade, with nuts and screws etc.		
	complete: 300x16.		
1.089	Providing and fixing aluminium hanging		
	floor door stopper, ISI marked, anodised		
	(anodic coating not less than grade AC 10	18.00	each
	as per IS: 1868) transparent or dyed to	16.00	Cacii
	required colour and shade, with necessary		
	screws etc. complete. Single rubber stopper.		
1.090	Providing and fixing bright finished brass		
	100 mm mortice latch and lock, ISI marked,		
	with six levers and a pair of anodised		
	(anodic coating not less than grade AC 10	3.00	each
	as per IS: 1868) aluminium lever handles		
	of approved quality with necessary screws		
	etc. complete.		
1.091	Providing and fixing aluminium extruded		
	section body tubular type universal		
	hydraulic door closer (having brand logo		
	with IS: 3564, embossed on the body, door	18.00	each
	weight upto 36 kg to 80 kg and door width		Cacii
	from 701 mm to 1000 mm), with double		
	speed adjustment with necessary		
	accessories and screws etc. complete.		



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Sl.No.	Item Description	Quantity	Units
1.092	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete as per direction of Engineer In-Charge.	7.50	Each
1.093	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design : In 75x75 mm deep chase.	126.00	meter
1.094	Diluting and injecting chemical emulsion for POST- CONSTRUCTIONAL antitermite treatment (including the cost of chemical emulsion): Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1:2 (1 cement: 2 Coarse sand) to match the existing floor: With Chlorpyriphos/Lindane E.C. 20% with 1% concentration.	450.00	sqm
1.095	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS: 13592 Type A, including jointing with seal ring conforming to IS: 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes. 110 mm diameter.	45.00	meter
1.096	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised Rigid PVC rain water pipes conforming to IS: 13592 Type A, including jointing with seal ring conforming to IS: 5382, leaving 10 mm gap for thermal expansion. Shoe (Plain) 110 mm Shoe.	10.50	each
1.097	Providing and laying in situ five course water proofing treatment with APP (Atactic Polypropylene) modified Polymeric memberane over roof consisting of first coat of bitumen primer @ 0.40Kg per sqm, 2nd & 4th courses of bonding material @	345.00	sqm



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Sl.No.	Item Description	Quantity	Units
	1.20 kg/sqm, which shall consist of blown		
	type bitumen of grade 85/25 conforming to		
	IS: 702, 3rd layer of roofing membrane		
	APP modified Polymeric membrane 2.0		
	mm thick of 3.00 Kg/ sqm weight		
	consisting of five layers prefabricated with		
	centre core as 100 micron HMHDPE film		
	sandwiched on both sides with polymeric		
	mix and the polymeric mix is protected on		
	both side with 20 micron HMHDPE film.		
	5th, the top most layer shall be finished		
	with brick tiles of class designation 10		
	grouted with cement mortar 1:3 (1 cement :		
	3 fine sand) mixed with 2% integral water		
	proofing compound by weight of cement		
	over a 12 mm layer of cement mortar 1:3 (1		
	cement : 3 fine sand) and finished neat		
	(item of laying brick tiles shall be paid for		
	separately).		
1.098	Providing and laying brick tiles over mumty		
	roofs, grouted with cement mortar 1:3 (1		
	cement: 3 fine sand) mixed with 2% of		
	integral water proofing compound by	245.00	
	weight of cement, over 12 mm layer of	345.00	sqm
	cement mortar 1:3 (1 cement : 3 fine sand)		
	and finished neat: With common burnt clay		
	F.P.S. (non modular) brick tiles of class		
1 000	designation 10 Steel reinforcement for R.C.C. work		
1.099			
	including straightening, cutting, bending,		
	placing in position and binding all complete	12000.00	kg
	upto all level. Thermo-Mechanically		
	Treated bars of grade Fe-500D or more. With corrosion inhibitor/CRS		
1.100	Making plinth protection 75mm thick of		
1.100	cement concrete 1:3:6 (1 cement : 3 coarse		
	sand : 6 graded stone aggregate 20 mm		
	nominal size) over 75mm thick bed of dry		
	brick ballast 40 mm nominal size, well	120.00	sqm
	rammed and consolidated and grouted with	120.00	Sqiii
	fine sand, including necessary excavation,		
	levelling & dressing & finishing the top		
	smooth.		



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Sl.No.	Item Description	Quantity	Units
1.101	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	1500.00	kg
1.102	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete	300.00	kg
1.103	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work	150.00	sqm
1.104	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with : Cement mortar 1:6 (1 cement : 6 coarse sand)	60.00	cum
1.105	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III): 4 graded stone aggregate 12.5mm nominal size) Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification. Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	27.00	sqm
1.106	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually	5.00	Each



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Sl.No.	Item Description	Quantity	Units
	controlled device (handle lever),		
	conforming to IS: 7231, with all fittings		
	and fixtures complete, including cutting and		
	making good the walls and floors wherever		
	required :W.C. pan with ISI marked white		
	solid plastic seat and 390 mm high with lid		
	complete as per direction of Engineer In-		
	Charge.		
1.107	Providing and fixing approved quality		
	paper holder fix on wall with rawl plugs all		
	materials labours etc, all complete as	5.00	Each
	directed by the Engineer-in-charge.C.P.		
	brass		
1.108	Providing and fixing white vitreous china		
	flat back or wall corner type lipped front		
	urinal basin of 430x260x350 mm and		
	340x410x265 mm sizes respectively with		
	automatic flushing cistern with standard		
	flush pipe and C.P. brass spreaders with		
	brass unions and G.I clamps complete,	5.00	Each
	including painting of fittings and brackets,		
	cutting and making good the walls and		
	floors wherever required :One urinal basin		
	with 5 litre white P.V.C. automatic flushing		
	cistern complete as per direction of		
	Engineer In-Charge.		
1.109	Providing and fixing wash basin with C.I.		
	brackets, 15 mm C.P. brass		
	pillar taps, 32 mm C.P. brass waste of		
	standard pattern, including		
	painting of fittings and brackets, cutting and	5.00	Each
	making good the walls		
	wherever require: White Vitreous China		
	Wash basin size 550x400 mm with a pair of		
	15 mm C.P. brass pillar taps		
1.110	Providing and fixing 600x450 mm beveled		
	edge mirror of superior glass (of approved		
	quality) complete with 6 mm thick hard		
	board ground fixed to wooden cleats with	5.00	Each
	C.P. brass screws hard board backing		
	complete as per direction of Engineer In-		
	Charge.and washers complete.		



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Sl.No.	Item Description	Quantity	Units
1.111	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. brass towel rail 600mm long and 20 dia mm with C.P. brass brackets complete as per direction of Engineer In-Charge.	6.00	Each
1.112	Providing and fixing approved quality liquid soap dispenser and holder fix on wall with rawl plugs all materials labours etc., all complete as directed by the Engineer-incharge.	5.00	Each
1.113	Providing and placing on terrace polyethylene Water storage tank, IS- 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fitting & base support.	2500.00	ltrs
1.114	Providing and fixing Stainless Steel A ISI 304 (18/8) KITCHEN SINK Pantry unit of sufficient size with sandwich type of platform with one sink (Nirali Make) plumbing fixture plumbing fixtureas per IS: 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required: 510x1040 mm bowl depth 200 mm complete as per direction of Engineer In-Charge.	1.00	Each
1.115	Providing and fixing PVC, soil waste and vent pipes conforming to IS 4985 of SWR quality 4 Kg & 6 Kg / Sq cm, pressure. The rate shall incude cost of all fittings like plain elbow, plain tee, plain Y, 4 way tee and all required necessary specials etc., complete. jointing with rubber ring and solvent joints providing MS brackets grouted in the wall and fasteners cutting and making good the walls and floors (pipes running expose in sanitary ducts) supreme or prince quality pipes. 75 mm dia	30.00	meter



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Sl.No.	Item Description	Quantity	Units
	complete as per direction of Engineer In-		
1.116	Charge. Providing and fixing PVC, soil waste and vent pipes conforming to IS 4985 of SWR quality 4 Kg & 6 Kg / Sq cm, pressure. The rate shall incude cost of all fittings like plain elbow, plain tee, plain Y, 4 way tee and all required necessary specials etc., complete. jointing with rubber ring and solvent joints providing MS brackets grouted in the wall and fasteners cutting and making good the walls and floors (pipes running expose in sanitary ducts) supreme or prince quality pipes. 110 mm dia complete as per direction of Engineer In-Charge.	60.00	meter
1.117	Providing and fixing PVC, soil waste and vent pipes conforming to IS 4985 of SWR quality 4 Kg & 6 Kg / Sq cm, pressure. The rate shall incude cost of all fittings like plain elbow, plain tee, plain Y, 4 way tee and all required necessary specials etc., complete. jointing with rubber ring and solvent joints providing MS brackets grouted in the wall and fasteners cutting and making good the walls and floors (pipes running expose in sanitary ducts) supreme or prince quality pipes. 150 mm dia complete as per direction of Engineer In-Charge.	15.00	meter
1.118	Providing & fixing 100 mm PVC for gully, floor or nahani trap at all heights and levels complete as per direction of Engineer In-Charge.	9.00	Each
1.119	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end):25 mm nominal bore complete as per direction of Engineer In-Charge.	3.00	Each
1.120	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded	22.50	meter



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Sl.No.	Item Description	Quantity	Units
	fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings 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.		
1.121	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, 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 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. 20 mm nominal outer dia Pipes.	15.00	meter
1.122	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, 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 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.	60.00	meter
1.123	Providing and fixing unplasticized polyvinyl chloride (uPVC) pipes, including all uPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of	7.50	meter



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Sl.No.	Item Description	Quantity	Units
	pipes & fittings with one step uPVC solvent		
	cement and testing of joints complete as per		
	direction of Engineer in Charge. Internal		
	work - Exposed on wall. 15 mm nominal		
	outer dia Pipes.		
1.124	Providing and fixing unplasticized		
	polyvinyl chloride (uPVC) pipes, including		
	all uPVC plain & brass threaded fittings,		
	including fixing the pipe with clamps at		
	1.00 m spacing. This includes jointing of	15.00	matan
	pipes & fittings with one step uPVC solvent	13.00	meter
	cement and testing of joints complete as per		
	direction of Engineer in Charge. Internal		
	work - Exposed on wall. 20 mm nominal		
	outer dia Pipes.		
1.125	Providing and fixing unplasticized		
	polyvinyl chloride (uPVC) pipes, including		
	all uPVC plain & brass threaded fittings,		
	including fixing the pipe with clamps at		
	1.00 m spacing. This includes jointing of		
	pipes & fittings with one step uPVC solvent	15.00	meter
	cement and testing of joints complete as per		
	direction of Engineer in Charge. Internal		
	work - Exposed on wall. 25 mm nominal		
	outer dia Pipes.		
1.126	Providing and fixing unplasticized		
1.120	polyvinyl chloride (uPVC) pipes, including		
	all uPVC plain & brass threaded fittings,		
	including fixing the pipe with clamps at		
	1.00 m spacing. This includes jointing of		
	pipes & fittings with one step uPVC solvent	7.50	meter
	cement and testing of joints complete as per		
	direction of Engineer in Charge. Internal		
	work - Exposed on wall. 50 mm nominal		
	outer dia Pipes.		
1.127	Providing and fixing brass bib cock of		
1.14/	approved quality: 15 mm nominal bore		
	complete as per direction of Engineer In-	5.00	Each
1 100	Charge.		
1.128	Providing and fixing brass bib cock of		
	approved quality 20 mm nominal bore	10.00	Each
	complete as per direction of Engineer In-		
	Charge.		



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Sl.No.	Item Description	Quantity	Units
1.129	Providing and fixing brass stop cock of approved design, quality and make 15mm NB complete as per direction of Engineer In-Charge.	5.00	Each
1.130	Providing and fixing brass stop cock of approved design, quality and make 20mm NB complete as per direction of Engineer In-Charge.	10.00	Each
1.131	Providing and fixing vista make vertical blind of approved color and brand cost is inclusing of supply of materials, fixing, labour charges, transportation all leads, lifts, taxes etc. complete at all height and levels complete as per direction of Engineer In-Charge.	33.00	Sqm
1.132	LED indoor luminaire, industrial grade with diffuser and heat sink, minimum 3-star BEE rating, 30W, 240V, Philips/ Syska/ Havells/ Wipro/ Bajaj/ Crompton make as per LM79-08 & LM80-15 standards as approved by NHPC/BHEL	30.00	Nos
1.133	LED indoor luminaire, industrial grade with diffuser and heat sink, minimum 3-star BEE rating, 10W, 240V, Philips/ Syska/ Havells/ Wipro/ Bajaj/ Crompton make as per LM79-08 & LM80-15 standards as approved by NHPC/BHEL	42.00	Nos
1.134	LED bulkhead luminaire around the building (on the outer walls), 9W, 240V, minimum 3-star BEE rating, Philips/ Syska/ Havells/ Wipro/ Bajaj/ Crompton make as per LM79-08 & LM80-15 standards as approved by NHPC/BHEL	18.00	Nos
1.135	Ceiling fan 1200 mm sweep 5 star type Khaitan/ Usha/ Bajaj/ Crmpton/ Havells make as approved by NHPC/BHEL	12.00	Nos
1.136	Fan regulator Modular type of reputed make as approved by NHPC/BHEL	12.00	Nos
1.137	6A modular type switch of reputed make as approved by NHPC/BHEL	30.00	Nos
1.138	6A, 1ph, 5 pin, switched socket outlet Modular type of reputed make as approved by NHPC/BHEL	14.00	Nos



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Sl.No.	Item Description	Quantity	Units
1.139	16A, 1ph, 5 pin, switched socket outlet Module type of reputed make as approved by NHPC/BHEL	5.00	Nos
1.140	3x6A, 1ph, 5 (2-3) pin socket outlet controlled by one 16A switch of reputed make as approved by NHPC/BHEL	5.00	Nos
1.141	25A, 1ph, 5 pin, industrial socket with MCB enclosure of reputed make as approved by NHPC/BHEL	3.00	Nos
1.142	63A, 3ph, 415V, industrial socket with MCB enclosure of reputed make as approved by NHPC/BHEL	2.00	Nos
1.143	Exhaust fan 450mm of reputed make as approved by NHPC/BHEL	9.00	Nos
1.144	Power distribution board of reputed make as approved by NHPC/BHEL	2.00	Nos
1.145	Cables, cable conduits, cable accessories for the above, all conduits (Embedded in wall or floor) shall be 1" pvc pipe (dia) of reputed make as approved by NHPC/BHEL	900.00	Mtr
1.146	4CX25 Sq mm Cu Cable of reputed make as approved by NHPC/BHEL	52.50	Mtr
1.147	3 core 2.5 sqmm PVC insulated flexible copper cable	100.00	Mtr
1.148	3 core 1.5 sqmm PVC insulated flexible copper cable	400.00	Mtr
1.149	Cement concrete flooring (with ironite hardener) 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, etc. complete. 52 mm thick with 10 mm nominal size stone aggregate IS 2571.	112.50	SQM
1.150	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gms/litre (for Internal walls and ceiling), of approved manufacturer, of required shade and colour complete, as per manufacturer's specification: Two or more coats on new work INTERNAL WALLS AND CEILING (EXCEPT SCADA ROOM)	120.00	SQM



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Sl.No.	Item Description	Quantity	Units
1.151	Supplying and fixing rolling shutters (Mechanical gear operated) of approved make, made of required size M.S. laths, interlocked together through their entire length with effective bridge depth of 12mm lath sections, interlocked with each other and ends lock arrangements for inside and outside locking with malleable cast iron clips confirming to IS: 2108 and with mechanical device chain and crank operation for operating rolling shutters complete, including the cost of providing and fixing necessary fittings and fixtures of adequate strength conforming to IS: 4454 part 1 and M.S. top cover of required thickness for rolling shutters. 80x1.25 mm M.S. laths with 1.25 mm thick top cover	13.50	SQM
1.152	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, galvanized light gauge rolled form supporting system in double web construction pre painted with steel capping, of approved shade and color to give grid of maximum size of 1200x600 mm as per manufacturers details including supporting grid system, expansion fastners for suspension arrangement from RCC, providing opening for AC ducts (if required), return air grills (if required), light fixtures, etc., all complete: 16 mm thick MINERAL FIBER BOARD, in tile form of size 600mm x 600mm.	126.00	SQM
1.153	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.	195.00	kg



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Sl.No.	Item Description	Quantity	Units
	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. (Glazing, paneling and		
	dash fasteners to be paid for separately):		
	Powder coated aluminium (minimum		
	thickness of powder coating 50 micron).		
1.154	Providing and fixing aluminium work for		
	shutters of doors, windows & ventilators		
	including providing and fixing hinges/		
	pivots and making provision for fixing of		
	fittings wherever required including the	288.00	kg
	cost of EPDM rubber / neoprene gasket	200.00	Kg
	required (Fittings shall be paid for		
	separately). Powder coated aluminium		
	(minimum thickness of powder coating 50		
	micron).		
1.155	Providing and fixing hand rail of approved		
	size by welding etc. to steel ladder railing,		
	balcony railing, staircase railing and similar	750.00	KG
	works, including applying priming coat of		
	approved steel primer. M.S. tube		
1.156	Providing and fixing precoated galvanised		
	iron profile sheets (size, shape and pitch of		
	corrugation as approved by Engineer-in-		
	charge) $0.50 \text{ mm} + 0.05 \%$, total coated		
	thickness with zinc coating 120 gsm 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. Sheet		
	should have protective guard film of 25	100.00	SQM
	microns minimum to avoid scratches while		
	transportation and should be supplied in		
	single length upto 12 metre or as desired by		
	Engineer-in-charge. The sheet shall be fixed		
	using self drilling /self tapping screws of		
	size (5.5x 55mm) with EPDM seal,		
	complete upto any pitch in horizontal/		
	vertical or curved surfaces excluding the		



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Sl.No.	Item Description	Quantity	Units
	cost of purlins, rafters and trusses and		
	including cutting to size and shape		
	wherever required.		
1.157	Brick work with common burnt clay F.P.S.		
	(non modular) bricks of class designation		
	7.5 up to plinth level in all shapes and sizes	120.00	Cum
	in : Cement mortar 1:4(1 cement : 4 coarse		
	sand)		
1.158	Brick work with common burnt clay F.P.S.		
	(non modular) bricks of class designation		
	7.5 above plinth level in all shapes and	120.00	Cum
	sizes in : Cement mortar 1:4 (1 cement : 4		
1 1 7 0	coarse sand)		
1.159	Providing and fixing in position collapsible		
	steel shutters with vertical channels		
	20x10x2 mm and braced with flat iron		
	diagonals 20x5 mm size, with top and	10.00	
	bottom rail of T-iron 40x40x6 mm, with 40	10.00	sqm
	mm dia steel pulleys, complete with bolts,		
	nuts, locking arrangement, stoppers,		
	handles, including applying a priming coat		
1.160	of approved steel primer.		
1.160	Providing and fixing 10mm thk acid/alkali		
	resistant tiles of approved make and color		
	using acid/alkaline resisting mortar bedding	10.00	
	and joints filled with acid/alkali resisting	10.00	sqm
	cement as per IS 4457 as per EIC ,in flooring on a bed of 10mm thk mortat 1:4		
	(1 acid proof cement+4 coarse and)		
1.161	Providing and fixing 10mm thk acid/alkali		
1.101	•		
	resistant tiles of approved make and color using acid/alkaline resisting mortar bedding		
	and joints filled with acid/alkali resisting	20.00	cam
	cement as per IS 4457 as per EIC, in dado	20.00	sqm
	on 12 mm thk mortat 1:4 (1 acid proof		
	cement+4 coarse and)		
1.162	Painting with acid proof paint of approved		
1.102	brand and manufacture to give an even	10.00	sqm
	shade: Two or more coats on new work	10.00	Sqiii
1.163	ROADS, DRAINS & CULVERT		
1.164	Earth work in excavation by mechanical		
1.101	means (Hydraulic excavator) / manual	496.80	cum
	means over areas (exceeding 30cm in	170.00	Cann



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Sl.No.	-		Units
	depth. 1.5m in width as well as 10 sqm on		
	plan) including rolling, compaction MDD		
	95%, disposal of excavated earth,lead upto		
	50m, lift upto 1.5m, disposed earth to be		
	levelled and neatly dressed. All kinds of		
	soil		
1.165	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	49.68	cum
	plan) including disposal of excavated earth,	47.00	Cum
	lead upto 5km, lift unto 1.5 m, disposed		
	earth to be levelled and neatly dressed.		
	Ordinary rock		
1.166	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	10.00	oum
	plan) including disposal of excavated earth,	10.00	cum
	lead unto 5km and lift unto 1.5 m, disposed		
	earth to be levelled and neatly dressed.		
	Hard rock (blasting prohibited)		
1.167	Filling (borrowed approved soil/Excavated		
	soil) in layers not exceeding 20 cm in		
	depth, breaking clods, watering, rolling		
	each layer with power roller of minimum 8		
	tonnes to achieve 97% or more of standard	717.00	cum
	proctor's MDD and dressing up, in	717.00	Cuiii
	embankments for roads, flood banks,		
	marginal banks, and guide banks etc., lead		
	upto 50 m and lift upto 1.5 m (All kinds of		
	soil)		
1.168	Construction of granular subbase by		
	providing close graded material conforming		
	to spec, mixing at OMG, carriage, lead&lift,		
	spreading of uniform thickness motor	245.00	Cum
	graded on prepared surface, compacted with	4 4 3.00	Cuiii
	vibratary power roller to achieve to achieve		
	97% or more of standard proctor's MDD as		
	per spec & instruction of enginer incharge.		
1.169	Supplying and stacking at site.63 mm to 45	154.00	oum
	mm size stone aggregate (WBM Gr-II)	154.00	cum



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Sl.No.	Item Description	Quantity	Units
1.170	Supplying and stacking at site.53 mm to 22.4 mm size stone aggregate. (WBM Gr-	115.00	oum
	III)	113.00	cum
1.171	Supplying and stacking at site. Stone screening 11.2 mm nominal size (Type B)	59.00	cum
1.172	Supplying and stacking at site- binding material.	43.00	cum
1.173	Laying, spreading and compacting stone aggregate of specified sizes to WBM specifications in uniform thickness, hand picking, rollingwith 3 wheeled road / vibratory roller 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.	269.00	cum
1.174	2 cm premix carpet surfacing.	1050.00	sqm
1.175	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (exceeding 1.5 m in width or 10 sqm on plan), including dressing, ramming, stabilisation of sides and bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 5km, disposed earth to be levelled and neatly dressed. All kinds of soil	552.00	cum
1.176	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (exceeding 1.5 m in width or 10 sqm on plan), including dressing, ramming, stabilisation of sides and bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 5km, disposed earth to be levelled and neatly dressed. Ordinary rock	110.40	cum
1.177	Filling (borrowed approved soil) (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding	200.00	cum



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Sl.No.	Item Description	Quantity	Units
	20cm in depth, consolidating each		
	deposited layer by ramming and watering,		
	lead up to 1.5km and lift upto 1.5 m.		
1.178	Providing and laying in position cement		
	concrete of specified grade excluding the		
	cost of centering and shuttering - All work	20.00	
	up to plinth level 1:2:4 (1 cement : 2 coarse	20.00	cum
	sand: 4 graded stone aggregate 20 mm		
	nominal size) with smooth finish.		
1.179	Providing and laying in position cement		
	concrete of specified grade excluding the		
	cost of centering and shuttering - All work		
	up to plinth level 1:3:6 (1 cement : 3 coarse	16.00	cum
	sand : 6 graded stone aggregate 40		
	mm/20mm nominal size) with smooth		
	finish		
1.180	Providing and laying in position machine		
1.100	batched and machine mixed design mix M-		
	30 grade cement concrete for reinforced		
	cement concrete work, using cement		
	content as per approved design mix,		
	including pumping of concrete to site of		
	laying but excluding the cost of centering,		
	shuttering, and reinforcement, including	10.00	cum
	admixtures in recommended proportions as		
	per IS: 9103 to accelerate, retard setting of		
	concrete, improve workability without		
	impairing strength and durability as per		
	direction of Engineer-in-charge. All works		
	upto plinth level		
1.181	Steel reinforcement for R.C.C. work		
1.101	including straightening, cutting, bending,		
	placing in position and binding all complete		
	upto all level. Thermo-Mechanically	400.00	kg
	Treated bars of grade Fe-500 CRS. with		
	corrosion inhibitor/CRS		
1.182	Centering and shuttering including		
1.162	strutting, propping etc. and removal of form		
	for :Foundations, footings, bases of	100.00	sqm
	columns, cover slabs etc. for mass concrete		
1 102			+
1.183	Steel work welded in built up sections/	500.00	1, ~
	framed work including cutting, hoisting,	500.00	kg
	fixing in position and applying a priming		



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Sl.No.	Item Description	Quantity	Units
	coat of approved steel primer and Paint		
	using structural steel etc. as required in		
	gratings, frames, guard bar, ladder, railings,		
	brackets, gates and similar works.		
1.184	Providing and laying Non Pressure NP-3		
	class (Medium duty) R.C.C. pipes including		
	collars/spigot jointed with stiff mixture of		
	cement mortar in the proportion of 1:2 (1	20.00	meter
	cement : 2 fine sand) including testing of		
	joints etc. complete: 450 mm dia. R.C.C.		
	pipe		
1.185	Providing and laying Non Pressure NP-3		
	class (Medium duty) R.C.C. pipes including		
	collars/spigot jointed with stiff mixture of		
	cement mortar in the proportion of 1:2 (1	20.00	meter
	cement : 2 fine sand) including testing of		
	joints etc. complete :600 mm dia. R.C.C.		
	pipe		
1.186	Supply and stacking of hard stone 22.5 cm	40.00	011100
	thick	40.00	cum
1.187	Dry stone pitching 22.5 cm thick laid in		
	courses and required profile with hammer	200.00	0.000
	dressed stones having no side less than	200.00	sqm
	15cm with min depth of 20cm		
1.188	Brick work with common burnt clay F.P.S.		
	(non modular) bricks of class		
	designation 7.5 in foundation and plinth in	20.00	Cum
	Cement mortar 1:4 (1 cement : 4 coarse		
	sand)		
1.189	12 mm cement plaster of mix : 1:4 (1		
	cement: 4 coarse sand) cement plaster (In	100.00	sqm
	coarse sand)		
1.190	Finishing walls with water proofing cement		
	paint of required shade on New work (Two	100.00	Sqm
	or more coats applied @ 3.84 kg/10 sqm)		
Total in Figures			

Remarks:

- 1. Please refer applicable BOQ under ANNEXURE VII Unpriced BID.
- 2. TECHNICAL SPECIFICATIONS, FIELD QUALITY PLAN (FQP-CIVIL) and drawing documents enclosed with this NIT documents are part of above tabled scope of work.



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7.2 ANNEXURE – II TECHNO-COMMERCIAL BID APPLICATION

To,

Sr. Manager / WCC Bharat Heavy Electricals Limited Solar Business Division, IISc Post, Malleswaram, Bengaluru – 560 012

Dear Sir,

I / We hereby offer to carry out the work "Civil works for proposed 300MW Rengali floating solar project at Odisha for NHPC"

I /We have carefully perused the all the clauses mentioned in NIT and agree to abide with the same.

- 1. Notice Inviting Tender Part A Volume 1
- 2. Technical specification, FQP, drawing Part A Volume 1
- 3. Notice Inviting Tender Part A Volume 2
- 4. Price Bid Format Part B

I/ We further agree to execute all the works referred to in the said documents.

I declare that, there was never / is no litigation or charge under investigation / enquiry / trial against me / us, nor conviction in a court of law or suspended or blacklisted by any organization on any grounds.

Signature of Tenderer Date:



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7.3 ANNEXURE – III: BIDDER INFORMATION

		Requirement fulfilled (Yes / No / NA/
S. No.	DETAILS REQUIRED	Value)
	Name of the Company	
1		
	Name of Authorized Signatory	
2		
	Name of Contact person for this tender	
3		
	Email-id of contact person	
4		
_	Contact number	
5	Davida Assessed Data ila (Nassa of Davida	
	Bank Account Details (Name of Bank, Branch and Account Number).	
	Cancelled Cheque to be enclosed	
6	Cancerica Cheque to be enclosed	
	Details of Relatives employed in BHEL,	
	Name Designation and Unit - Clause 4.8	
7	<u> </u>	
	Relative 1	
	ACIMITY I	
	Relative 2	
	Relative 3	



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7.4 ANNEXURE – IV: CHECKLIST OF ENCLOSURES

S. No.	DETAILS REQUIRED	Requirement fulfilled (Yes / No / NA/ Value)	Whether proof / document enclosed (YES / NO)
1	Documentary Evidence as per Clause 3.1		
2	Declaration as per cl. 4.3		
3	GSTIN certificate should be submitted (under Cl. 4.2)		
4	Average turnover of last 3 years - Clause 3.2		
5	PAN No Clause 4.1		
6	ESI -Clause 4.4		
7	PF- Clause 4.5		
8	Non-Disclosure Agreement		
9	EMD Details (DD No., Amount, Date & Bank)		
10	PPP-MII Format to be enclosed - Annexure VIII		
11	Boarder sharing (Applicable Annexure- D (i) or D(ii) to be submitted in letter head)		



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7.5 ANNEXURE – V: BIDDER DECLARATION - I

S. No.	DETAILS REQUIRED	Requirement fulfilled (Yes / No / NA/ Value)
1	I have carefully read the Tender Terms and	
	Conditions and I submit my agreement for the	
	same.	
2	I have completely understood the scope of	
	work and submit my agreement to carry out the	
	work as per mentioned in Tender document.	
	1	
3	I have quoted rates for the total scope of work	
	mentioned in the tender document	
5	I have understood and accepted the payment	
	terms of BHEL as per Cl.6	
6	I am responsible for the safety of workmen	
	deployed and agree to fulfil the requirements as	
	per tender terms	
7	I agree to participate in the tender and carry out	
	the work (if awarded) ethically and submit my	
	agreement to various requirements in this	
	contract.	
8	I have carefully read the Tender Terms and	
	Conditions and I submit my agreement for the	
	same.	
9	Signed and submitted the deviations sheet	



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7.6 ANNEXURE – VI, BIDDER DECLARATION - II

I,	, aged,
Residi	ng at
Hereb	y declare as follows:
(i)	That my nationality is
(ii)	That I am a major and eligible to enter into contract / my firm / my company is competent to enter into an agreement.
(iii)	I shall employ only such personnel who have not been found unfit for employment in Organizations such as Central / state / Public undertaking by the Police Authorities.
(iv)	I shall not employ persons against whom Criminal cases are pending or under investigation.
(v)	I shall also not employ persons found guilty of offences involving moral turpitude for executing work in BHEL contracts.
(vi)	That there are no Criminal cases/Civil/Labor pending or under investigation against me or my firm or company.
(vii)	I have not been found guilty of offences involving moral turpitude nor any of the company directors / partners of my firm have been found guilty of offences involving moral turpitude.
(viii)	Neither I nor my firm nor my company has been declared insolvent in the past.
(ix)	I have taken due care and efforts to furnish only information which are true in the tender document.
(x)	I shall employ labor who is more than 18 years of age and less than 58 years and having sound physical and mental health.
(xi)	I shall keep Photograph / identity proof / residential proof of the laborers to be employed against this tender and arrange for police verification.
(xii)	I shall employ and deploy suitable qualified personnel for supervision of the work in each shift and additionally as required for monitoring compliance to process requirements and compliance to contract terms & conditions.
	[Signature with Name & seal of the Tenderer]
Date Place	: :



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7.7 ANNEXURE VII Unpriced BID

	Civil works as per NHPC tender scope	
1	Main control room cum guest house (280 sqm) + Parking shed (40 sqm)	1,13,25,470.06
2	PEB store room (150 sqm) + 3no Security cabin	65,30,320.89
3	Fencing approx. 500m	26,04,427.55
4	Roads & Drains. 350M	28,69,103.00
	Total Civil Cost for 300 MW AC	2,33,29,321.50

Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in
				13. 1	Rs. P
1.001	01 NO. PEB STORE				
	BUILDING (150 SQM) + 3nos				
	of security cabin foundation				
1.002	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 2km and lift upto 1.5m, disposed earth to be levelled and neatly dressed.all type of soil as per direction of Engineer in charge.	298.00	Cum	150.42	44825.16
1.003	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 2km and lift upto 1.5m, disposed earth to be levelled and neatly dressed.in soft rock complete as	100.00	Cum	422.79	42279.00



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Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
	per direction of Engineer in charge.				
1.004	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 2km and lift upto 1.5m, disposed earth to be levelled and neatly dressed.in Hard rock complete as per direction of Engineer in charge.	50.00	Cum	1,214.36	60718.00
1.005	Boring (with DTH/drilling machine) in any kind of soil/rock, providing and installing bored cast-in-situ reinforced/Plain cement concrete piles of grade M-30 of specified diameter and length below the pile cap, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of concrete, marking of pile location as per approved drawing with total station machine, boring, with bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. all complete, (Cement Content shall be as per approved mix design by BHEL/Owner) including removal of excavated earth with	50.00	Meter	1,012.57	50628.50



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Sl.	Item Description		Units	Estimated	TOTAL
No.	-	Quantity	Omes	Unit Rate in Rs. P	AMOUNT Without Taxes in Rs. P
	all lifts and leads (Length of pile for payment shall be measured upto bottom of pile cap). 300 mm dia pile of any depth.				
1.006	Filling available excavated earth/murram (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 2 km and lift upto 1.5 m complete as per direction of Engineer in charge.	592.60	Cum	166.10	98430.86
1.007	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level: 1:3:6 (1 Cement: 3 coarse sand (zone-III): 6 graded stone aggregate 20 mm nominal size).	42.53	Cum	6,181.95	262918.33
1.008	62mm thick cement concrete flooring with hardener topping under layer 50mm thick cement concrete 1:2:4 and toplayer 12mm thick cement hardener consisting mix 1:2 (1 cement+2 stone aggregate 6mm) by volumne, hardening compound mixed @2 litre per 50kg of cement or as per manufacurer's spec.	177.00	sqm	895.04	158422.08
1.009	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level: 1:2:4 (1 cement: 2 coarse sand: 4 graded	5.00	Cum	6,676.69	33383.45



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Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
	stone aggregate 20/10mm mm nominal size) complete as per direction of Engineer in charge. All work up to plinth level				
1.010	Providing and laying in position machine batched and machine mixed design mix M-30 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. All works upto plinth level	44.49	Cum	8,182.80	364052.77
1.011	Providing and laying in position machine batched and machine mixed design mix M-30 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing	5.00	Cum	8,484.19	42420.95



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Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
	strength and durability as per direction of Engineer-in-charge. All works above plinth level upto floor V level				
1.012	Centering and shuttering including strutting, propping etc. and removal of form for :Foundations, footings, pedestal, bases of columns etc. for mass complete as per direction of Engineer in charge.	136.40	sqm	332.33	45329.81
1.013	Centering and shuttering including strutting, propping etc. and removal of form for all heights: plinth beams, Tie/Lintel beams, girders, bressumers and cantilevers FOR ANY HEIGHT	50.60	sqm	624.06	31577.44
1.014	Centering and shuttering including strutting, propping etc. and removal of form for all heights: Walls (any thickness)/cable trench wall including attached pilasters, butteresses, plinth and string courses etc.	114.76	sqm	713.98	81936.34
1.015	Supplying and filling in plinth with sand/murrum under floors, including watering,ramming, consolidating and dressing complete.	26.28	Cum	1,799.79	47298.48
1.016	Dry stone soling average 22.5 cm thick including supply of stones, ramming with sand and preparing surface complete.	500.00	sqm	748.43	374215.00
1.017	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 up to	20.00	cum	5,512.63	110252.60



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Sl.	Item Description		Units	Estimated	TOTAL
No.		Quantity		Unit Rate in Rs. P	AMOUNT Without Taxes in Rs. P
	plinth level in all shapes and sizes in : Cement mortar 1:4 (1 cement : 4 coarse sand)				
1.018	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 up to plinth level. Cement mortar 1:4 (1 cement :4 coarse sand)	5.00	sqm	766.99	3834.95
1.019	12 mm cement plaster of mix: 1:6 (1 cement: 6 coarse sand): INTERNAL PLASTER	500.00	sqm	291.23	145615.00
1.020	Providing and fixing aluminium work for doors, windows, ventilatorsand 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. (Glazing, paneling and dash fasteners to be paid for separately): Powder	150.00	kg	449.92	67488.00



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Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
	coated aluminium (min thick 50 micron)				
1.021	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 EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Powder coated aluminium (min thick 50 micron)	50.00	kg	537.67	26883.50
1.022	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade 1 Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of	9.00	sqm	945.25	8507.25



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Sl.	Item Description		Units	Estimated	TOTAL
No.		Quantity		Unit Rate in Rs. P	AMOUNT Without Taxes in Rs. P
	Engineer-in-charge. Pre- laminated particle board with decorative lamination on both sides				
1.023	Kota stone slabs 20 mm thick in risers of steps, skirting, dado andpillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	5.00	sqm	1,995.51	9977.55
1.024	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto all level. Thermo-Mechanically Treated bars of grade Fe-500 with corrosion inhibitor/CRS	4949.35	kg	91.39	452321.10
1.025	Making plinth protection 75mm thick of cement concrete 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	107.00	sqm	635.00	67945.00



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Sl.	Itam Decemention		Units	Estimated	TOTAL
No.	Item Description	Quantity	Omts	Unit Rate in Rs. P	AMOUNT Without Taxes in Rs. P
1.026	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. (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 4.0 mm thickness)	30.00	sqm	997.29	29918.70
1.027	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. (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 5.00 mm thickness.	9.00	sqm	1,275.64	11480.76
1.028	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	8000.00	kg	113.31	906480.00
1.029	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In stringers, treads, landings etc. of stair cases, including use of	4000.00	kg	104.75	419000.00



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Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
	chequered plate wherever required, all complete				
1.030	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work	300.00	sqm	132.12	39636.00
1.031	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with : Cement mortar 1:6 (1 cement : 6 coarse sand)	80.00	cum	6,195.97	495677.60
1.032	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement: 2 coarse sand (zone-III): 4 graded stone aggregate 12.5mm nominal size) Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification. Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	25.00	sqm	472.03	11800.75



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Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
1.033	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS: 13592 Type A, including jointing with seal ring conforming to IS: 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes. 110 mm diameter	70.00	RM	319.83	22388.10
1.034	Supplying and fixing rolling shutters (Mechanical gear operated) of approved make, made of required size M.S. laths, interlocked together through their entire length with effective bridge depth of 12mm lath sections, interlocked with each other and ends lock arrangements for inside and outside locking with malleable cast iron clips confirming to IS: 2108 and with mechanical device chain and crank operation for operating rolling shutters complete, including the cost of providing and fixing necessary fittings and fixtures of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters. 80x1.25 mm M.S. laths with 1.25 mm thick top cover	20.00	sqm	4,181.82	83636.40



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Sl.	Item Description		Units	Estimated	TOTAL
No.	item Description	Quantity	Omts	Unit Rate in Rs. P	AMOUNT Without Taxes in Rs. P
1.035	Providing and fixing precoated Galvanised PUF sandwich panel roof (size, shape, and pitch of corrugation as approved by Engineer -in- Charge) 70 mm thick panels with desnity 40kg/cum, U- Factor (0.24 to 0.28) and R Value (3.95-3.41) satisfying the specification of ECBC Code (Energy Conservation Building Code) prescribed by Government of India. The total coated thickness with zinc coating 120 gsm 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. Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length upto 12metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required as per the directions of E-in-C. including fixing cap for the exposed end of sandwich PUF sheet including cost of material and labour all complete	230.00	Sqm	3300	759000.00



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Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
1.036	Providing and fixing precoated Galvanised PUF sandwich panel side sheets (size, shape, and pitch of corrugation as approved by Engineer -in- Charge) 60 mm thick panels with density 40kg/cum, U- Factor (0.24 to 0.28) and R Value (3.95-3.41) satisfying the specification of ECBC Code (Energy Conservation Building Code) prescribed by Government of India. The total coated thickness with zinc coating 120 gsm 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. Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length upto 12metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required as per the directions of E-in-C. including fixing cap for the exposed end of sandwich PUF sheet including cost of material and labour all complete	400.00	Sqm	2,800.00	1120000.00



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SI. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
1.037	FENCE (500 m) AND MAIN GATE				
1.038	Boring (with DTH/drilling machine) in any kind of soil/rock, providing and installing bored cast-in-situ reinforced/Plain cement concrete piles of grade M-25 of specified diameter and length below the pile cap, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of concrete, marking of pile location as per approved drawing with total station machine, boring, with bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. all complete, (Cement Content shall be as per approved MIX DESIGN by BHEL/Owner) including removal of excavated earth with all lifts and leads (Length of pile for payment shall be measured upto bottom of pile cap).300 mm dia piles any depth.	120.00	RM	1,012.58	121509.600
1.039	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth.1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 2km and lift upto 1.5m,	200.00	cum	150.42	30084.000



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Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
	disposed earth to be levelled and neatly dressed.all type of soil as per direction of Engineer in charge.				
1.040	Filling available excavated earth/murram (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 2 km and lift upto 1.5 m complete as per direction of Engineer in charge.	100.00	cum	166.10	16610.000
1.041	Providing and fixing G.I. chain link mesh fabric fencing of required width in mesh size 50X 50 MM Made of G.I. wire of dia. 4 mm, nuts, bolts and washers as required both ends twisted conforming to IS 2721 complete as per the direction of Engineer-in-charge.	1,050.00	sqm	862.54	905667.000
1.042	Painting on Angles and steel structures with epoxy based synthetic enamel paint of approved brand and manufacture of Siemens Grey RAL - 7032. Thickness of paint shall be not less than 75 micron: Two or more coats on new work of approved brand and manufacture as per direction of Engineer-in -charge.	250.00	sqm	191.74	47935.000



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Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
1.043	Fencing with post placed at required distance, embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post one side only, provided with horizontal lines and two diagonals of barbed wire weighing 9.38 kg per 100 metres (minimum), between the two posts fitted and fixed with G.I. staples on wooden plugs or G.I. binding wire tied to 6 mm bar nibs fixed while casting the post (cost of R.C.C. posts, struts, earth work and concrete to be paid for separately):- Payment will be made as per metre cost of total length of barbed wire used.	1,500.00	meter	11.86	17790.000
1.044	Brick work with clay flyash F.P.S. (non modular) brick of class designation 7.5 in superstructure above plinth level up to floor five level in Cement mortar 1:5 (1 cement : 5 coarse sand)	65.757	cum	7,707.67	506833.256
1.045	Structural Steel work in single section fixing in position and applying a primer coat all complete.	5,167.63	Kg	99.45	513920.804
1.046	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level: 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate	30.00	Cum	6,676.69	200300.700



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Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
	20/10mm mm nominal size) complete as per direction of Engineer in charge. All work up to plinth level				
1.047	12 mm cement plaster of mix: 1:6 (1 cement: 6 coarse sand) cement plaster (In coarse sand)	600	sqm	291.23	174738.000
1.048	Finishing walls with water proofing cement paint of required shade: New work (Two or more coats applied @ 3.84 kg/10 sqm all complete as per direction of Engineer-in-charge	600	sqm	99.07	59442.000
1.049	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS: 13592 Type A, including jointing with seal ring conforming to IS: 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipe as weep hole.110 mm diameter.	30	meter	319.83	9594.900
1.051	CONSTRUCTION OF RCC MAIN CONTROL ROOM BUILDING, PARKING SHED AND OTHER ASSOCIATED WORKS				
1.052	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 2km and lift upto 1.5m, disposed	620.00	Cum	150.42	93260.400



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Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
	earth to be levelled and neatly dressed.all type of soil as per direction of Engineer in charge.				
1.053	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 2km and lift upto 1.5m, disposed earth to be levelled and neatly dressed in soft rock complete as per direction of Engineer in charge.	300.00	Cum	422.80	126840.000
1.054	Filling available excavated earth/murram (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 2 km and lift upto 1.5 m complete as per direction of Engineer in charge.	900.00	Cum	166.10	149490.000
1.055	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level: 1:3:6 (1 Cement: 3 coarse sand (zone-III): 6 graded stone aggregate 20 mm nominal size).	75.00	Cum	6,181.95	463646.250



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Sl.	Itom Decemention		Units	Estimated	TOTAL
No.	Item Description	Quantity	Units	Unit Rate in Rs. P	AMOUNT Without Taxes in Rs. P
1.056	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto floor V level: 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20/10mm mm nominal size) complete as per direction of Engineer in charge.	60.00	Cum	6,676.69	400601.400
1.057	Providing and laying in position machine batched and machine mixed design mix M-30 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. All works upto floor V level	145.50	Cum	8,182.80	1190597.400
1.058	Centering and shuttering including strutting, propping etc. and removal of form for :Foundations, footings, bases of columns etc. for mass complete as per direction of Engineer in charge.	300.00	sqm	332.33	99699.000
1.059	Centering and shuttering including strutting, propping etc. and removal of form for Columns, Pillars, Piers,	225.00	sqm	814.66	183298.500



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Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
	Abutments, Posts and Struts complete as per direction of Engineer in charge. FOR ANY HEIGHT				
1.060	Centering and shuttering including strutting, propping etc. and removal of form for all heights: Lintels, beams, plinth beams, girders, bressumers and cantilevers FOR ANY HEIGHT	300.00	sqm	624.07	187221.000
1.061	Centering and shuttering including strutting, propping etc. and removal of form for Suspended floors, roofs, landings, balconies and access platform complete as per direction of Engineer in charge. FOR ANY HEIGHT	420.00	sqm	785.81	330040.200
1.062	Centering and shuttering including strutting, propping etc. and removal of form for all heights: Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	300.00	sqm	713.98	214194.000
1.063	Supplying and filling in plinth with sand/murrum under floors, including watering,ramming, consolidating and dressing complete.	150.00	Cum	1,799.79	269968.500
1.064	Dry stone SOLING AVERAGE 22.5 cm thick including supply of stones, ramming with sand and preparing surface complete.	270.00	sqm	748.43	202076.100
1.065	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 up to floor V	15.00	sqm	952.37	14285.550



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Sl.	Item Description		Units	Estimated	TOTAL
No.	item Description	Quantity	Omes	Unit Rate in Rs. P	AMOUNT Without Taxes in Rs. P
	level. Cement mortar 1:4 (1 cement :4 coarse sand)				
1.066	15 mm cement plaster in two coats under layer 1:4 (1 cement : 4 coarse sand) finished rough with sponge. EXTERNAL PLASTER	675.00	sqm	341.19	230303.250
1.067	12 mm cement plaster of mix: 1:4 (1 cement: 4 fine sand): INTERNAL PLASTER	675.00	sqm	294.11	198524.250
1.068	12 mm cement plaster of mix: 1:4 (1 cement: 4 coarse sand) DRAIN PLASTER	276.00	sqm	302.84	83583.840
1.069	6 mm cement plaster of mix: 1:3 (1 cement: 3 fine sand) CEILING PLASTER	300.00	sqm	254.62	76386.000
1.070	Providing and laying vitrified floor tiles in different sizes (thickness should be 9mm) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 30mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	300.00	Sqm	1316.48	394944.000
1.071	Providing and laying anti skid Glazed Ceramic floor tiles of size 300x300 mm or more (thickness should be 9mm), of 1st quality conforming to IS: 15622, of approved make, in	24.00	sqm	1,127.12	27050.880



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Sl.	Item Description		Units	Estimated	TOTAL
No.	nem Description	Quantity	Omes	Unit Rate in Rs. P	AMOUNT Without Taxes in Rs. P
	colours as approved by Engineer In-charge, laid on 30 mm thick cement mortar 1:4 (1 Cement: 4 Coarse sand), jointing with grey cement slurry @ 3.3kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.				
1.072	Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS: 15622 (thickness should be 6mm), of approved make, in all colours, shades in skirting, dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm,including pointing in white cement mixed with pigment of matching shade complete.	80.00	Sqm	1,074.53	85962.400
1.073	Cement plaster skirting up to 30 cm height, with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement. 18 mm thick	10.00	sqm	561.06	5610.600
1.074	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars 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 slabs, including rubbing and polishing complete.	40.00	sqm	1,995.51	79820.400



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Sl. No.	Item Description		Units	Estimated Unit Rate	TOTAL AMOUNT
		Quantity		in Rs. P	Without Taxes in Rs. P
1.075	Providing and fixing 20 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement: 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Granite of any colour and shade.	4.50	sqm	4,352.80	19587.600
1.076	Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-incharge and finished smooth. Granite Stone of approved shade	2.00	sqm	3,433.77	6867.540
1.077	Providing and applying plaster of paris putty of 2 mm thickness of approved brandover plastered surface to prepare the surface even and smooth complete.	660.00	sqm	222.63	146935.800



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Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
1.078	Finishing walls with Acrylic Smooth exterior weather proof paint of required shade: New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior weather proof primer applied @ 2.20 kg/10 sqm) EXTERNAL	900.00	sqm	136.10	122490.000
1.079	Wall painting with acrylic emulsion paint (for Internal walls) of approved brand and manufacture to give an even shade: Two or more coats on new work	1125.00	sqm	116.48	131040.000
1.080	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface: Water thinnable cement primer CEILING	240.00	sqm	62.67	15040.800
1.081	Providing and fixing ISI marked flush door (MDF) shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	13.50	sqm	2943.94	39743.190
1.082	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade 1	15.00	sqm	945.25	14178.750



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Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
	Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-incharge. Pre-laminated particle board with decorative lamination on both sides.				
1.083	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. (Cost of aluminium snap beading shall be paid in basic item): With float/tinted glass panes of 4.0 mm thickness.	24.00	sqm	997.29	23934.960
1.084	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. With float glass panes of 8.00 mm thickness.	15.00	sqm	1,428.31	21424.650
1.085	Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with	63.75	kg	540.97	34486.838



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Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
	C.P. brass/ stainless steel screws @ 200 mm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineer-in-charge. (Only weight of grill to be measured for payment).				
1.086	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete: 250x10 mm.	15.00	each	97.58	1463.700
1.087	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete: 125 mm.	39.00	each	56.14	2189.460
1.088	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete: 300x16.	30.00	each	256.99	7709.700



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Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
1.089	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete. Single rubber stopper.	18.00	each	33.56	604.080
1.090	Providing and fixing bright finished brass 100 mm mortice latch and lock, ISI marked, with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS: 1868) aluminium lever handles of approved quality with necessary screws etc. complete.	3.00	each	736.40	2209.200
1.091	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with IS: 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	18.00	each	833.18	14997.240
1.092	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete as per direction of Engineer In-Charge.	7.50	Each	448.18	3361.350



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Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
1.093	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design : In 75x75 mm deep chase.	126.00	meter	258.60	32583.600
1.094	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL antitermite treatment (including the cost of chemical emulsion): Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1:2 (1 cement: 2 Coarse sand) to match the existing floor: With Chlorpyriphos/Lindane E.C. 20% with 1% concentration.	450.00	sqm	262.75	118237.500
1.095	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS: 13592 Type A, including jointing with seal ring conforming to IS: 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes. 110 mm diameter.	45.00	meter	319.83	14392.350
1.096	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised Rigid PVC rain water pipes conforming to IS: 13592 Type A, including jointing with seal ring	10.50	each	111.74	1173.270



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Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
	conforming to IS: 5382, leaving 10 mm gap for thermal expansion. Shoe (Plain) 110 mm Shoe.				
1.097	Providing and laying in situ five course water proofing treatment with APP (Atactic Polypropylene) modified Polymeric memberane over roof consisting of first coat of bitumen primer @ 0.40Kg per sqm, 2nd & 4th courses of bonding material @ 1.20 kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS: 702, 3rd layer of roofing membrane APP modified Polymeric membrane 2.0 mm thick of 3.00 Kg/ sqm weight consisting of five layers prefabricated with centre core as 100 micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20 micron HMHDPE film. 5th, the top most layer shall be finished with brick tiles of class designation 10 grouted with cement mortar 1:3 (1 cement: 3 fine sand) mixed with 2% integral water proofing compound by weight of cement mortar 1:3 (1 cement: 3 fine sand) and finished neat (item of	345.00	sqm	450.89	155557.050



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Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
	laying brick tiles shall be paid for separately).				
1.098	Providing and laying brick tiles over mumty roofs, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement, over 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat: With common burnt clay F.P.S. (non modular) brick tiles of class designation 10	345.00	sqm	514.75	177588.750
1.099	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto all level. Thermo-Mechanically Treated bars of grade Fe-500D or more. With corrosion inhibitor/CRS	12000.00	kg	91.40	1096800.000



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Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
1.100	Making plinth protection 75mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	120.00	sqm	635.00	76200.000
1.101	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	1500.00	kg	113.31	169965.000
1.102	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete	300.00	kg	104.75	31425.000
1.103	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work	150.00	sqm	132.12	19818.000
1.104	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement: 6 coarse sand: 12	60.00	cum	6,195.97	371758.200



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Sl.	Item Description		Units	Estimated	TOTAL
No.		Quantity		Unit Rate in Rs. P	AMOUNT Without Taxes in Rs. P
	graded stone aggregate 20 mm nominal size) upto plinth level with: Cement mortar 1:6 (1 cement: 6 coarse sand)				
1.105	Providing and laying damp- proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III): 4 graded stone aggregate 12.5mm nominal size) Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification. Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	27.00	sqm	472.03	12744.810
1.106	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS: 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: W.C. pan with ISI marked white solid	5.00	Each	5,521.65	27608.250



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Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
	plastic seat and 390 mm high with lid complete as per direction of Engineer In-Charge.				
1.107	Providing and fixing approved quality paper holder fix on wall with rawl plugs all materials labours etc, all complete as directed by the Engineer-in-charge.C.P. brass	5.00	Each	681.10	3405.500
1.108	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required: One urinal basin with 5 litre white P.V.C. automatic flushing cistern complete as per direction of Engineer In-Charge.	5.00	Each	5,304.03	26520.150
1.109	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Wash basin size	5.00	Each	1,950.64	9753.200



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Sl. No.	Item Description 550x400 mm with a pair of 15	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
	mm C.P. brass pillar taps				
1.110	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws hard board backing complete as per direction of Engineer In-Charge.and washers complete.	5.00	Each	1,362.67	6813.350
1.111	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. brass towel rail 600mm long and 20 dia mm with C.P. brass brackets complete as per direction of Engineer In-Charge.	6.00	Each	600.81	3604.860
1.112	Providing and fixing approved quality liquid soap dispenser and holder fix on wall with rawl plugs all materials labours etc., all complete as directed by the Engineer-in-charge.	5.00	Each	142.67	713.350
1.113	Providing and placing on terrace polyethylene Water storage tank, IS- 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet	2500.00	ltrs	9.32	23300.000



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Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
	and overflow pipes but without fitting & base support.				
1.114	Providing and fixing Stainless Steel A ISI 304 (18/8) KITCHEN SINK Pantry unit of sufficient size with sandwich type of platform with one sink (Nirali Make) plumbing fixture plumbing fixtureas per IS: 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required: 510x1040 mm bowl depth 200 mm complete as per direction of Engineer In-Charge.	1.00	Each	6066.95	6066.950
1.115	Providing and fixing PVC, soil waste and vent pipes conforming to IS 4985 of SWR quality 4 Kg & 6 Kg / Sq cm, pressure. The rate shall incude cost of all fittings like plain elbow, plain tee, plain Y, 4 way tee and all required necessary specials etc., complete. jointing with rubber ring and solvent joints providing MS brackets grouted in the wall and fasteners cutting and making good the walls and floors (pipes running expose in sanitary ducts) supreme or prince quality pipes. 75 mm dia complete as per direction of Engineer In-Charge.	30.00	meter	61.25	1837.500



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Sl.	Item Description		Units	Estimated	TOTAL
No.		Quantity		Unit Rate in Rs. P	AMOUNT Without Taxes in Rs. P
1.116	Providing and fixing PVC, soil waste and vent pipes conforming to IS 4985 of SWR quality 4 Kg & 6 Kg / Sq cm, pressure. The rate shall incude cost of all fittings like plain elbow, plain tee, plain Y, 4 way tee and all required necessary specials etc., complete. jointing with rubber ring and solvent joints providing MS brackets grouted in the wall and fasteners cutting and making good the walls and floors (pipes running expose in sanitary ducts) supreme or prince quality pipes. 110 mm dia complete as per direction of Engineer In-Charge.	60.00	meter	79.63	4777.800
1.117	Providing and fixing PVC, soil waste and vent pipes conforming to IS 4985 of SWR quality 4 Kg & 6 Kg / Sq cm, pressure. The rate shall incude cost of all fittings like plain elbow, plain tee, plain Y, 4 way tee and all required necessary specials etc., complete. jointing with rubber ring and solvent joints providing MS brackets grouted in the wall and fasteners cutting and making good the walls and floors (pipes running expose in sanitary ducts) supreme or prince quality pipes. 150 mm dia complete as per direction of Engineer In-Charge.	15.00	meter	98.01	1470.150
1.118	Providing & fixing 100 mm PVC for gully, floor or nahani trap at all heights and levels	9.00	Each	428.80	3859.200



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Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in
	complete as per direction of Engineer In-Charge.				Rs. P
1.119	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end):25 mm nominal bore complete as per direction of Engineer In-Charge.	3.00	Each	527.46	1582.380
1.120	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, 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 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.	22.50	meter	421.86	9491.850
1.121	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, 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 with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints	15.00	meter	455.59	6833.850



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Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
	complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 20 mm nominal outer dia Pipes.				
1.122	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, 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 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.	60.00	meter	531.57	31894.200
1.123	Providing and fixing unplasticized polyvinyl chloride (uPVC) pipes, including all uPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step uPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall. 15 mm nominal outer dia Pipes.	7.50	meter	243.05	1822.875



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Sl.	Item Description		Units	Estimated	TOTAL
No.	•	Quantity		Unit Rate in Rs. P	AMOUNT Without Taxes in Rs. P
1.124	Providing and fixing unplasticized polyvinyl chloride (uPVC) pipes, including all uPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step uPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall. 20 mm nominal outer dia Pipes.	15.00	meter	283.90	4258.500
1.125	Providing and fixing unplasticized polyvinyl chloride (uPVC) pipes, including all uPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step uPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall. 25 mm nominal outer dia Pipes.	15.00	meter	340.29	5104.350
1.126	Providing and fixing unplasticized polyvinyl chloride (uPVC) pipes, including all uPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step uPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.	7.50	meter	791.65	5937.375



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Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
	Internal work - Exposed on wall. 50 mm nominal outer dia Pipes.				
1.127	Providing and fixing brass bib cock of approved quality: 15 mm nominal bore complete as per direction of Engineer In-Charge.	5.00	Each	299.36	1496.800
1.128	Providing and fixing brass bib cock of approved quality 20 mm nominal bore complete as per direction of Engineer In-Charge.	10.00	Each	321.36	3213.600
1.129	Providing and fixing brass stop cock of approved design, quality and make 15mm NB complete as per direction of Engineer In-Charge.	5.00	Each	299.36	1496.800
1.130	Providing and fixing brass stop cock of approved design, quality and make 20mm NB complete as per direction of Engineer In-Charge.	10.00	Each	321.36	3213.600
1.131	Providing and fixing vista make vertical blind of approved color and brand cost is inclusing of supply of materials, fixing, labour charges, transportation all leads, lifts, taxes etc. complete at all height and levels complete as per direction of Engineer In-Charge.	33.00	Sqm	520.69	17182.770



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Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
1.132	LED indoor luminaire, industrial grade with diffuser and heat sink, minimum 3-star BEE rating, 30W, 240V, Philips/ Syska/ Havells/ Wipro/ Bajaj/ Crompton make as per LM79-08 & LM80-15 standards as approved by NHPC/BHEL	30.00	Nos	3,698.01	110940.300
1.133	LED indoor luminaire, industrial grade with diffuser and heat sink, minimum 3-star BEE rating, 10W, 240V, Philips/ Syska/ Havells/ Wipro/ Bajaj/ Crompton make as per LM79-08 & LM80-15 standards as approved by NHPC/BHEL	42.00	Nos	1,232.69	51772.980
1.134	LED bulkhead luminaire around the building (on the outer walls), 9W, 240V, minimum 3-star BEE rating, Philips/ Syska/ Havells/ Wipro/ Bajaj/ Crompton make as per LM79- 08 & LM80-15 standards as approved by NHPC/BHEL	18.00	Nos	1,109.42	19969.560
1.135	Ceiling fan 1200 mm sweep 5 star type Khaitan/ Usha/ Bajaj/ Crmpton/ Havells make as approved by NHPC/BHEL	12.00	Nos	2,876.28	34515.360
1.136	Fan regulator Modular type of reputed make as approved by NHPC/BHEL	12.00	Nos	205.45	2465.400
1.137	6A modular type switch of reputed make as approved by NHPC/BHEL	30.00	Nos	123.28	3698.400
1.138	6A, 1ph, 5 pin, switched socket outlet Modular type of reputed make as approved by NHPC/BHEL	14.00	Nos	123.28	1725.920



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Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
1.139	16A, 1ph, 5 pin, switched socket outlet Module type of reputed make as approved by NHPC/BHEL	5.00	Nos	246.52	1232.600
1.140	3x6A, 1ph, 5 (2-3) pin socket outlet controlled by one 16A switch of reputed make as approved by NHPC/BHEL	5.00	Nos	410.89	2054.450
1.141	25A, 1ph, 5 pin, industrial socket with MCB enclosure of reputed make as approved by NHPC/BHEL	3.00	Nos	287.63	862.890
1.142	63A, 3ph, 415V, industrial socket with MCB enclosure of reputed make as approved by NHPC/BHEL	2.00	Nos	403.49	806.980
1.143	Exhaust fan 450mm of reputed make as approved by NHPC/BHEL	9.00	Nos	7,807.03	70263.270
1.144	Power distribution board of reputed make as approved by NHPC/BHEL	2.00	Nos	8,170.64	16341.280
1.145	Cables, cable conduits, cable accessories for the above, all conduits (Embedded in wall or floor) shall be 1" pvc pipe (dia) of reputed make as approved by NHPC/BHEL	900.00	Mtr	32.88	29592.000
1.146	4CX25 Sq mm Cu Cable of reputed make as approved by NHPC/BHEL	52.50	Mtr	369.81	19415.025
1.147	3 core 2.5 sqmm PVC insulated flexible copper cable	100.00	Mtr	277.12	27712.000
1.148	3 core 1.5 sqmm PVC insulated flexible copper cable	400.00	Mtr	312.71	125084.000



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Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
1.149	Cement concrete flooring (with ironite hardener) 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, etc. complete. 52 mm thick with 10 mm nominal size stone aggregate IS 2571.	112.50	SQM	829.19	93283.875
1.150	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gms/litre (for Internal walls and ceiling), of approved manufacturer, of required shade and colour complete, as per manufacturer's specification: Two or more coats on new work INTERNAL WALLS AND CEILING (EXCEPT SCADA ROOM)	120.00	SQM	157.33	18879.600
1.151	Supplying and fixing rolling shutters (Mechanical gear operated) of approved make, made of required size M.S. laths, interlocked together through their entire length with effective bridge depth of 12mm lath sections, interlocked with each other and ends lock arrangements for inside and outside locking with malleable cast iron clips confirming to IS: 2108 and with mechanical device chain and crank operation for operating rolling shutters complete, including the cost of providing and fixing necessary fittings and fixtures of	13.50	SQM	4,181.82	56454.570



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Sl.	Item Description		Units	Estimated	TOTAL
No.		Quantity		Unit Rate in Rs. P	AMOUNT Without Taxes in Rs. P
	adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters. 80x1.25 mm M.S. laths with 1.25 mm thick top cover				
1.152	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, galvanized light gauge rolled form supporting system in double web construction pre painted with steel capping, of approved shade and color to give grid of maximum size of 1200x600 mm as per manufacturers details including supporting grid system, expansion fastners for suspension arrangement from RCC, providing opening for AC ducts (if required), return air grills (if required), light fixtures, etc., all complete: 16 mm thick MINERAL FIBER BOARD, in tile form of size 600mm x 600mm.	126.00	SQM	1,977.63	249181.380
1.153	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,	195.00	kg	449.92	87734.400



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Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
	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. (Glazing, paneling and dash fasteners to be paid for separately): Powder coated aluminium (minimum thickness of powder coating 50 micron).				
1.154	Providing and fixing aluminium work 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 EPDM rubber / neoprene gasket required (Fittings shall be paid for separately). Powder coated aluminium (minimum thickness of powder coating 50 micron).	288.00	kg	537.67	154848.960
1.155	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer. M.S. tube	750.00	KG	166.78	125085.000



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Sl.	Item Description		Units	Estimated	TOTAL
No.	•	Quantity		Unit Rate in Rs. P	AMOUNT Without Taxes in Rs. P
1.156	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm + 0.05 %, total coated thickness with zinc coating 120 gsm 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. Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	100.00	SQM	625.97	62597.000
1.157	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 up to plinth level in all shapes and sizes in : Cement mortar 1:4(1 cement : 4 coarse sand)	120.00	Cum	5,512.63	661515.600
1.158	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 above plinth level in all shapes and	120.00	Cum	7,881.27	945752.400



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Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
	sizes in : Cement mortar 1:4 (1 cement : 4 coarse sand)				
1.159	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts,locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.	10.00	sqm	9694.57	96945.700
1.160	Providing and fixing 10mm thk acid/alkali resistant tiles of approved make and color using acid/alkaline resisting mortar bedding and joints filled with acid/alkali resisting cement as per IS 4457 as per EIC ,in flooring on a bed of 10mm thk mortat 1:4 (1 acid proof cement+4 coarse and)	10.00	sqm	1,473.01	14730.100
1.161	Providing and fixing 10mm thk acid/alkali resistant tiles of approved make and color using acid/alkaline resisting mortar bedding and joints filled with acid/alkali resisting cement as per IS 4457 as per EIC ,in dado on 12 mm thk mortat 1:4 (1 acid proof cement+4 coarse and)	20.00	sqm	1,597.37	31947.400
1.162	Painting with acid proof paint of approved brand and manufacture to give an even	10.00	sqm	90.89	908.900



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Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
	shade: Two or more coats on new work				
1.163	ROADS, DRAINS & CULVERT				
1.164	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including rolling, compaction MDD 95%, disposal of excavated earth,lead upto 50m, lift upto 1.5m, disposed earth to be levelled and neatly dressed. All kinds of soil	496.80	cum	150.42	74728.656
1.165	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 5km, lift unto 1.5 m, disposed earth to be levelled and neatly dressed. Ordinary rock	49.68	cum	422.80	21004.704
1.166	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 unto 5km and lift unto 1.5 m, disposed earth to be levelled and neatly dressed. Hard rock (blasting prohibited)	10.00	cum	1,214.36	12143.600



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Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
1.167	Filling (borrowed approved soil/Excavated soil) in layers not exceeding 20 cm in depth, breaking clods, watering, rolling each layer with power roller of minimum 8 tonnes to achieve 97% or more of standard proctor's MDD and dressing up, in embankments for roads, flood banks, marginal banks, and guide banks etc., lead upto 50 m and lift upto 1.5 m (All kinds of soil)	717.00	cum	167.71	120248.070
1.168	Construction of granular subbase by providing close graded material conforming to spec, mixing at OMG, carriage,lead&lift, spreading of uniform thickness motor graded on prepared surface, compacted with vibratary power roller to achieve to achieve 97% or more of standard proctor's MDD as per spec & instruction of enginer incharge.	245.00	Cum	2,359.32	578033.400
1.169	Supplying and stacking at site.63 mm to 45 mm size stone aggregate (WBM Gr-II)	154.00	cum	1,386.48	213517.920
1.170	Supplying and stacking at site.53 mm to 22.4 mm size stone aggregate. (WBM Gr-III)	115.00	cum	1,561.27	179546.050
1.171	Supplying and stacking at site. Stone screening 11.2 mm nominal size (Type B)	59.00	cum	1904.87	112387.330
1.172	Supplying and stacking at site-binding material.	43.00	cum	651.06	27995.580



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Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in
				185. 1	Rs. P
1.173	Laying, spreading and compacting stone aggregate of specified sizes to WBM specifications in uniform thickness, hand picking, rollingwith 3 wheeled road / vibratory roller 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.	269.00	cum	887.25	238670.250
1.174	2 cm premix carpet surfacing.	1050.00	sqm	198.35	208267.500
1.175	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (exceeding 1.5 m in width or 10 sqm on plan), including dressing, ramming, stabilisation of sides and bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 5km, disposed earth to be levelled and neatly dressed. All kinds of soil	552.00	cum	220.59	121765.680
1.176	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (exceeding 1.5 m in width or 10 sqm on plan), including dressing, ramming, stabilisation of sides	110.40	cum	536.40	59218.560



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C)	Kama David Safetica		TT *4	TC-454 - 3	TOTAL
Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
	and bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 5km, disposed earth to be levelled and neatly dressed. Ordinary rock				
1.177	Filling (borrowed approved soil) (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 1.5km and lift upto 1.5 m.	200.00	cum	166.10	33220.000
1.178	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) with smooth finish.	20.00	cum	6,676.69	133533.800
1.179	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm/20mm nominal size) with smooth finish	16.00	cum	6,181.95	98911.200



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Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
1.180	Providing and laying in position machine batched and machine mixed design mix M-30 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. All works upto plinth level	10.00	cum	8,054.87	80548.700
1.181	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto all level. Thermo-Mechanically Treated bars of grade Fe-500 CRS. with corrosion inhibitor/CRS	400.00	kg	91.40	36560.000
1.182	Centering and shuttering including strutting, propping etc. and removal of form for :Foundations, footings, bases of columns, cover slabs etc. for mass concrete	100.00	sqm	332.33	33233.000
1.183	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer and Paint using structural steel etc. as required in gratings,	500.00	kg	146.27	73135.000



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Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
	frames, guard bar, ladder, railings, brackets, gates and similar works.				
1.184	Providing and laying Non Pressure NP-3 class (Medium duty) R.C.C. pipes including collars/spigot jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete : 450 mm dia. R.C.C. pipe	20.00	meter	2,268.26	45365.200
1.185	Providing and laying Non Pressure NP-3 class (Medium duty) R.C.C. pipes including collars/spigot jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :600 mm dia. R.C.C. pipe	20.00	meter	2,882.42	57648.400
1.186	Supply and stacking of hard stone 22.5 cm thick	40.00	cum	843.94	33757.600
1.187	Dry stone pitching 22.5 cm thick laid in courses and required profile with hammer dressed stones having no side less than 15cm with min depth of 20cm	200.00	sqm	558.52	111704.000
1.188	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in Cement mortar 1:4 (1 cement : 4 coarse sand)	20.00	Cum	6,246.31	124926.200



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TENDER NO. TGPWCC0026

Sl. No.	Item Description	Quantity	Units	Estimated Unit Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P
1.189	12 mm cement plaster of mix: 1:4 (1 cement: 4 coarse sand) cement plaster (In coarse sand)	100.00	sqm	291.23	29123.000
1.190	Finishing walls with water proofing cement paint of required shade on New work (Two or more coats applied @ 3.84 kg/10 sqm)	100.00	Sqm	99.07	9907.000
Total in Figures					23329293.910

Note: 1.GST Extra applicable (on Total Quoted Price/Rate):.....%. (To be indicated by bidder along with Techno Commercial Bid).

2.Bidders Quoted percentage (%) is applicable to each line item estimated rate to arrive Unit Rate.



NOTICE INVITING TENDER (NIT) Rev 01

TENDER NO. TGPWCC0026

7.8 ANNEXURE- VIII, PPP-MII Format

FORMAT FOR	VERIFICATION (OF LOCAL C	ONTENT I	UNDER PR	REFERENCE T	O MAKE
IN INDIA ORD	ER					

(To be submitted with the offer)

[Applicable for procurement value from Rs. 5.00 Lac to Rs. 10.00 Crore]

Self-certification giving the percentage of local content, in line with PPP-MII order, if applicable [to be submitted on the letter head of the issuer.]

Item Name: Civil works for proposed 300MW Rengali floating solar project at Odisha for NHPC"

Enquiry No.: TGPWCC0026
Project: 300MW Rengali

Applicable percentage of Local Content.....

(Bidder to indicate local content in percentage)

We have read and understood the provisions of "Public Procurement (Preference to Make in India) Order, 2017" dated 15/06/2017, its revision dated 28/05/2018 and any subsequent modifications/Amendments, if any [hereinafter, "PPP-MII Order"] issued by Department of Industrial Policy and Promotion (DIPP), Ministry of Commerce and Industry, Government of India.

Details of location at which local value addition will be made is as follows:

We also understand, false declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

For and on behalf of, Date:

Authorized Signatory

(With Company Seal & Signature)

Note: This is a guiding format. In case the bidder submits the certificate in a format different from the above, the same may be considered provided it meets the intent and purpose, as may be ascertained by BHEL.



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TENDER NO. TGPWCC0026

7.9 ANNEXURE -IX: DEVIATION SHEET

Sl No.	Volume	Part/Clause Sl no.	NIT requirement	Bidder's Deviation

Total No. of deviations proposed by the Bidder-_____ nos.

BIDDER'S SIGN & SEAL:

Note: The Offers should be in full conformity with the terms and conditions of this tender. Incorrect and incomplete tenders are liable to be rejected. Deviations, if any, should only be mentioned as per format for Non-Technical Deviations (i.e. General Terms & Conditions, Commercial Terms etc.) & Technical Deviations (i.e. Scope of Work, Modalities of Contract etc.). BHEL at its discretion whether to give any further chance to a bidder in case of any deviation or reject the same offer.



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TENDER NO. TGPWCC0026

Annexure-D (i)

(Compliance to be submitted in the bidder's letter head) (as applicable)

Sub: Compliance to Government of India order OM No.6/18/2019-PPD dated 23.07.2020 & 24.7.2020 regarding restrictions under Rule 144 (XI) of the General Financial Rules (GFRs), 2017

Item Name : Civil works for proposed 300MW Rengali floating solar project NHPC		
Enquiry No.	TGPWCC0026	
Project :	300MW Rengali	
pertaining to Dep procurement no restrictions on pr	(name of the bidder company) have read the clauses partment of Expenditure's (DoE) Public Procurement Division Order (Public 1,2 & 3 vide ref. F.No.6/18/2019-PPD dated 23.07.2020 & 24.7.2020) regarding occurement from a bidder of a country which shares a land border with India. By that we are not from such a country and eligible to be considered for this	
•	pliance of above said GoI Order and its subsequent amendment, (if any), by any ad for commercial rejection of their bids by BHEL)	
	f (Name of the bidder) & seal of authorized representative of the bidder)	



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TENDER NO. TGPWCC0026

Annexure-D (ii)

(Compliance to be submitted in the bidder's letter head) (as applicable)

Sub: Compliance to Government of India order OM No.6/18/2019-PPD dated 23.07.2020 & 24.7.2020 regarding restrictions under Rule 144 (XI) of the General Financial Rules (GFRs), 2017

Item Name :	Civil works for proposed 300MW Rengali floating solar project at Odisha for NHPC
Enquiry No.	TGPWCC0026
:	
Project:	300MW Rengali
We M/s	(name of the bidder company) have read the clauses
	partment of Expenditure's (DoE) Public Procurement Division Order (Public
procurement no	1,2 & 3 vide ref. F.No.6/18/2019-PPD dated 23.07.2020 & 24.7.2020) regarding
1	rocurement from a bidder of a country which shares a land border with India.
We are from su	ch a country which shares a land border with India & have been registered with
	authority as specified in above said order. We hereby certify that we fulfil all
	this regard and are eligible to be considered. Evidence of valid registration by
-	Authority is attached.
•	pliance of above said GoI Order and its subsequent amendment, (if any), by any
•	ad for commercial rejection of their bids by BHEL)
oldder(s) shan ic	ad for commercial rejection of their olds by Bribb)
For and behalf o	f (Name of the bidder)
(Signature, date	& seal of authorized representative of the bidder)



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TENDER NO. TGPWCC0026

Conflict of Interest among Bidders/ Agents

- "A bidder shall not have conflict of interest with other bidders. Such conflict of interest can lead to anti-competitive practices to the detriment of Procuring Entity's interests. **The bidder found to have a conflict of interest shall be disqualified**. A bidder may be considered to have a conflict of interest with one or more parties in this bidding process, if:
- a) they have controlling partner (s) in common; or
- b) they receive or have received any direct or indirect subsidy/ financial stake from any of them; or
- c) they have the same legal representative/agent for purposes of this bid; or
- d) they have relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another Bidder; or
- e) Bidder participates in more than one bid in this bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all bids in which the parties are involved. However, this does not limit the inclusion of the components/ sub-assembly/ Assemblies from one bidding manufacturer in more than one bid; or
- f) In cases of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorise only one agent/dealer. There can be only one bid from the following:
- 1. The principal manufacturer directly or through one Indian agent on his behalf; and
- 2. Indian/foreign agent on behalf of only one principal;

or

- g) A Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the contract that is the subject of the Bid; **or**
- h) In case of a holding company having more than one independently manufacturing units, or more than one unit having common business ownership/management, only one unit should quote. Similar restrictions would apply to closely related sister companies. Bidders must proactively declare such sister/common business/management units in same/similar line of business."

Signature with company seal -
Name –
Company / Organization –
Designation within Company / Organization –
Address of Company / Organization –

Integrity Pact



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TENDER NO. TGPWCC0026

APPLICABLE (As per attached Format)

(a)IP is a tool to ensure that activities and transactions between the Company and its Bidders/Contractors are handled in a fair, transparent and corruption free manner. Following Independent External Monitors (IEMs) on the present panel have been appointed by BHEL with the approval of CVC to oversee implementation of IP in BHEL.

Sl no	IEM	EMAIL
1.	Shri. Otem Dai, IAS (Retd.)	Iem1@bhel.in
2.	Shri Bishwamitra Pandey IRAS (Retd.)	Iem2@bhel.in
3.	Shri Mukesh Mittal, IRS (Retd)	Iem3@bhel.in

(b)The IP as enclosed with the tender is to be submitted (duly signed by authorized signatory) along with techno-commercial bid (Part-I, in case of two/Three part bid). Only those bidders who have entered into such an IP with BHEL would be competent to participate in the bidding. In other words, entering into this Pact would be a preliminary qualification.

(c)Please refer Section-8 of IP for Role and Responsibilities of IEMs. In case of any complaint arising out of the tendering process, the matter may be referred to any of the above IEM(s). All correspondence with the IEMs shall be done through email only.

Note:

No routine correspondence shall be addressed to the IEM (phone/ post/ email) regarding the clarifications, time extensions or any other administrative queries, etc. on the tender issued. All such clarification/ issues shall be addressed directly to the tender issuing (procurement) department officials whose contact details are provided below..

Details of contact person(s):

NAME	PRAGADEESH T G	VINAY KUMAR
DEPT	WCC	WCC
ADDRESS	BHEL SBD BENGALURU	BHEL SBD BENGALURU
PHONE	080-22182232	080-22182435
EMAIL	pragadeeshtg@bhel.in	vinay@bhel.in

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TENDER DOCUMENT PART – A VOLUME - II

1.	INSTRUCTION TO BIDDER
2.	EARNEST MONEY DEPOSIT (EMD):
3.	SECURITY DEPOSIT (SD):
4.	NON DISCLOSURE AGREEMENT
5.	CONFIDENTIALITY
6.	STATUTORY REQUIREMENTS
7.	PERIOD OF CONTRACT
8.	FAILURE TO COMPLY WITH CONTRACT
9.	SUB-CONTRACTING
10.	LAWS GOVERNING THE CONTRACT
11.	LEGAL JURISDICTION:
12.	ARBITRATION & CONCILIATION:
13.	COMPENSATION:
14.	PENALTY/ LD FOR DELAYED DELIVERY
15.	REVERSE AUCTION
16.	CONCILIATION CLAUSE – Annexure IA
17.	MAKE IN INDIA CLAUSE
18.	FORMATS

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	INSTRUCTION TO RIDDER
1	INSTRUCTION TO BIDDER
1.1.	Tender is a two-part bid system. The tender documents consist of Part - A and Part
	- B as detailed below:
	a. Part 'A': Techno-commercial Bid duly sealed and signed to be
	uploaded at the web-portal (https://eprocurebhel.co.in) on or before
	the due date.
	b. Part 'B': Price Bid to be quoted in prescribed format available on
	web portal (https://eprocurebhel.co.in) on or before the due date.
1.2.	Envelope 1: Techno-Commercial Offer
	a. Documents to be uploaded at NIC web portal (https://eprocurebhel.co.in):
	i. Earnest Money Deposit (EMD) either in the form of DD or UTR
	Number (if paid through EFT) at the space provided.
	ii. Duly completed tender documents volume I&II(Part-A) sign and
	Sealed. Feed and every page of tander decuments should be sealed signed.
	iii. Each and every page of tender documents should be sealed signed.iv. Documents satisfying PQR/Eligibility Criteria as per relevant clause of
	NIT.
	v. Any other documents as per Tender requirements.
	vi. Each and every page of tender documents should be sealed & signed
	by the tenderer
	vii. Any other documents as per Tender requirements.
	b. The tenderer shall not indicate the price or rate in this Envelope.
	ı
	Envelope 2: Part 'B': Online Price-Bid.
	i. To be submitted online at NIC web portal (https://eprocurebhel.co.in)
	The tenderer shall expressly accept all the terms and conditions of the Tender. The
1.3.	tender which does not comply with the BHEL's Terms & Conditions may be
	rejected as Non-responsive/non-conforming and non-acceptable.
1.4.	The techno-commercial offer will be opened on the due date. The tenders meeting
	our techno-commercial requirements will be considered for online initial sealed
	bid auction at a later date for which eligible vendors will be intimated in due
	The tender forms duly filled in all represts shall be signed on each need by the
1.5.	The tender forms duly filled in all respects shall be signed on each page by the
	tenderer. Any alteration, erasing will render the tender invalid. Corrections, over
	writing, cutting(s) etc. are not permitted. All entries in the tender document should be in one into All the columns in the tender form should be filled without leaving
	be in one ink. All the columns in the tender form should be filled without leaving any column blank in any page of the tender. In case any of the relevant columns
	are left blank, the tender can be rejected. However, alteration neatly carried out
	and duly attested over with the full signature of the tenderer is permitted.
	The tenderer should submit the tender documents intact without detaching any
1.6.	page or pages
1.7.	Before making the offer, the bidders are advised to carefully go through the terms
1./.	1 Details making the ories, the orders are advised to emercing go through the terms

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	and and diagonalish forms now of the Assessment			
	and conditions, which form part of the Agreement.			
1.0	Tender documents consisting of Part 'A' Volume I & II duly sealed and signed and			
1.8.	Part 'B' shall be uploaded duly on or before the said Date and Time.			
	Part 'A' Volume I & II of tender form i.e. PQR and Techno-commercial Bid will be			
	opened on specified Tender Due Date and Time. Bidders who qualify the PQR &			
	Techno-commercial Bid will be intimated to participate in R.A. BHEL reserves the right to assess the capacity and capability of the parties for pre-			
	qualification. The company also reserves the right to accept or reject any or all the			
	tenders or any part thereof at any stage of process without assigning any reason			
1.9.	whatsoever. The company has no obligation to accept the lowest tender. Offer of			
1.7.	the Tenderer if prima-facie found not comparable with the quantum of work			
	envisaged and the bid is a desperate effort to be L1, then the offer is liable to be			
	rejected. BHEL's decision in this regard shall be final and binding.			
	PRICE BID - The tenderers are required to submit their quotation for all the items			
	listed in the Price Bid format given along with the tender documents. The price			
1.10.	should be quoted for each activity after careful study of the actual job requirement			
1.10.	so that, in case the contract is awarded, contractor should not express any			
	•			
	difficulties in execution of the contract.			
1.11.	Contractor to ensure payment of Minimum Wages payable as per statutory			
	provisions of the Appropriate Govt.			
1.12.	VALIDITY OF RATES: The rates quoted should be valid for 90 days initially from the date of opening of the Techno-Commercial bid. (Part-A)			
	The rates shall include the payments on account of Employee contribution to PF,			
	PF Admin. Charges, EDLI, Employer contribution to ESI, Gratuity, Bonus as per			
1.13.	statutory requirement, applicable taxes, as per the directives issued by BHEL from			
	time to time.			
	BHEL reserves the right to reject any bid, which is technically unacceptable and			
1.14.	unworkable. Further BHEL also reserves the right to reject any or all tenders			
	without assigning any reasons thereof.			
1 15	BHEL reserves the right to cancel the contract at the initial stage or during the			
1.15.	contract period without assigning any reason to the tenderer.			
1.16.	Wherever prescribed formats are specified for the tenderers use, he shall use the			
1.10.	same for making his Claims.			
1.17.	Tender document should be complete in all respects.			
	Successful tenderers shall enter into an Agreement on a non-judicial stamp paper			
1.18.	of Rs.100/- as a token of having accepted the rates, terms and conditions of the			
	contract as per the Proforma given by BHEL.			
1.10	The Offers should be in full conformity with the terms and conditions of this			
1.19.	tender. No contradictions are acceptable. Incorrect and incomplete tenders are			
1.00	liable for rejection.			
1.20.	Tenders not submitted in the prescribed forms are liable for rejection.			
1.21.	BHEL reserves the right to accept or reject any tender in part or full at their			
	discretion without assigning any reason.			
1.22.	If a tenderer deliberately gives wrong information in his tender or creates			



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conditions favorable for the acceptance of his tender, then BHEL reserves the right		
to reject such tender at any stage. If the tenderer indulges in any unethical practice for securing the contract, the offer		
If the tenderer indulges in any unethical practice for securing the contract, the offer of such tenderer shall be rejected.		
Any written communication required to be sent to the contractor in writing shall be		
sent at the address mentioned on the tender form or to any other address		
subsequently intimated by contractor in writing to BHEL SBD for the contract		
purposes.		
Benefit (including Turn Over and experience criteria) for MSME / NSIC bidders not available in this contract.		
Start-up companies will be provided benefits and relaxation as per the latest		
Government norms. For availing the start-up benefits, relevant certificates issued		
by Department for Promotion of Industry and Internal trade shall be submitted		
along with the tender		
Evaluation of Bids		
Techno-Commercial Bid & PQR: The techno-commercial bid & PQR will be		
evaluated based on the eligibility criteria and on acceptance of NIT terms and		
conditions of BHEL. Only qualified bids will be eligible for price-bid opening. Evaluation of Price-Bids: Evaluation of the L-1 offer shall be computed on		
overall lowest cost to BHEL basis (Grand Total Price for all the items indicated in		
·		
Price Bid minus tax credit, if, any)		
Compensation to Contractor		
No compensation to contractor shall be given for prior completion/ early closure or		
any negative/ positive variation in contract value.		
EARNEST MONEY DEPOSIT (EMD):Applicable INR 2,00,000.00 (Indian		
2. Rupees two lakhs only)		
Earnest Money Deposit (EMD) is to be paid by tenderers for securing fulfilment of		
any obligations in terms of the NIT. Earnest Money Deposit as indicated in the NIT (Ref. General Information-Vol-I) is		
to be submitted along with tender documents.		
Modes of deposit: The EMD may be accepted only in the following forms:		
(i) Cash deposit as permissible under the extant Income Tax Act (before tender		
opening)		
(ii) Electronic Fund Transfer credited in BHEL account (before tender opening)		
(iii) Banker's cheque/ Pay order/ Demand draft, in favor of BHEL (along with		
offer)		
(iv) Fixed Deposit Receipt (FDR) issued by Scheduled Banks/ Public Financial		
Institutions as defined in the Companies Act (FDR should be in the name of the		
Contractor, a/c BHEL (v) Insurance Surety Bonds		
In addition to above, the EMD amount in excess of Rs Two lakh may also		



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	Guarantee in such cases shall be valid for at least six months.	
	Forfeiture of EMD: EMD by the Tenderer will be forfeited as per NIT conditions,	
	if: i) After opening the tender and within the offer validity period, the tenderer revokes his tender or makes any modification in his tender which is not acceptable to BHEL.	
2.3.	ii) The Contractor fails to deposit the required Security deposit or commence	
	the work within the period as per LOI/ Contract EMD by the tenderer shall be	
	withheld in case any action on the tenderer is envisaged under the provisions of	
	extant "Guidelines on Suspension of business dealings with suppliers/ contractors" and forfeited/ released based on the action as determined under	
	these guidelines.	
2.4	EMD given by all unsuccessful tenderers shall be refunded normally within	
2.4.	fifteen (15) days of award of work.	
2.5.	EMD shall not carry any interest.	
2.6.	EMD of successful tenderer will be retained as part of Security Deposit.	
3.	3 SECURITY DEPOSIT (SD): Applicable 10% of Work order value	
	Security Deposit means the security provided by the Contractor towards	
3.1.	fulfilment of any obligations in terms of the provisions of the contract and be	
	treated as a performance security.	
	The total amount of Security Deposit will be 5 % of the contract value. EMD	
3.2.	of the successful tenderer shall be converted and adjusted towards the required	
	amount of Security Deposit.	
	Modes of deposit:	
	The balance amount to make up the required Security Deposit of 5% of the	
	contract value may be accepted in the following forms:	
	i. Cash (as permissible under the extant Income Tax Act)	
	ii. Local cheque of Scheduled Banks (subject to realization)/ Pay Order/ Demand Draft/ Electronic Fund Transfer in favor of BHEL	
	iii. Bank Guarantee from Scheduled Banks/ Public Financial Institutions as	
	defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL	
	iv. Fixed Deposit Receipt issued by Scheduled Banks/ Public Financial	
3.3.	Institutions as defined in the Companies Act (FDR should be in the name	
	of the Contractor, a/c BHEL)	
	v. Securities available from Indian Post offices such as National Savings	
	Certificates, Kisan Vikas Patras etc. (held in the name of Contractor	
	furnishing the security and duly endorsed/ hypothecated/ pledged, as	
	applicable, in favour of BHEL)	
	vi. Insurance Surety Bonds	
	(Note: BHEL will not be liable or responsible in any manner for the collection	
	of interest or renewal of the documents or in any other matter connected	
	therewith)	
3.4.	Collection of Security:	



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	At least 50% of the required Security Deposit, including the EMD should be submitted before start of the work. Balance of the Security Deposit can be submitted by way of deducting 10% of the gross amount progressively from each of the running bills of the Contractor till the total amount of the required Security Deposit is submitted. If the value of work done at any time exceeds the contract value, the amount of Security Deposit shall be correspondingly enhanced and the additional Security Deposit shall be immediately deposited by the Contractor or recovered from payment/s due to the Contractor. The recoveries made from running bills (cash deduction towards balance SD amount) can be released against submission of equivalent Bank Guarantee in acceptable form, but only once, before completion of work, with the approval of the authority competent to award the work.			
	Note:50% of the Security Deposit shall be submitted before start of the work or 14 days from contract date whichever is later. The interest period			
	shall start after the lapse of above period as per applicable rates)			
3.5.	Security Deposit shall be released to the Contractor upon fulfilment of contractual obligations as per terms of the contract.			
3.6.	The Security Deposit shall not carry any interest.			
3.7.	Bidder agrees to submit performance security required for execution of the contract within the time period mentioned. In case of delay in submission of performance security, enhanced performance security which would include interest (Repo rate + 4%) for the delayed period, shall be submitted by the bidder. Further, If performance security is not submitted till such time the first bill becomes due, the amount of performance security due shall be recovered as per terms defined in NIT/contract, from the bills along with due interest.			
4.	NON-DISCLOSURE AGREEMENT . The contractor shall sign a Non-Disclosure Agreement (NDA) as per BHEL format (Copy enclosed) in compliance to Information Security Management System.			
5.	CONFIDENTIALITY: The contractor and his representatives shall, at all times, undertake to maintain and ensure complete confidentiality and integrity of all data, information, software, drawings & documents, etc. belonging to BHEL and also of the systems, procedures, reports, input documents, results and any other company documents discussed and/or finalized during the course of execution of the order/contract.			
6.	STATUTORY REQUIREMENTS:			
6.1.	While quoting the rate, the tenderers are advised to take note of minimum wages payable to workmen.			
6.2.	The tenderer will be required to comply with all the statutory provisions such as Minimum Wages prevailing at the time of payment or arrears thereof Bonus, PF, EDLI, ESI, Applicable Tax, declared Holidays, leave, etc. The contractor shall submit the documentary evidence of payment on account of submission of statutory payments made to the concerned agencies before clearance of bill of next month.			
6.3.	The Contractor shall comply with the provisions of the Factories Act 1948,			



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		Contract Labour (Regulation and Abolition) Act 1970, ESI Act, Employees		
		Provident Fund and Miscellaneous Act 1952, Minimum Wages Act 1948,		
		Payment of Gratuity Act 1972, Industrial Disputes Act, 1947, Employers		
		Liability Act 1938, Inter State Migrants Workmen (Regulation of employment		
		and conditions of Service) Act 1979, Employees Compensation Act (),		
		Maternity Benefit Act 1961, and or any other Laws and Rules that may be		
		applicable from time to time to the workers engaged by him. The contractor,		
		when required by the Company shall produce the registers and records for		
		verification and comply with other directions issued by the company for		
		compliance of the statutory provisions.		
		The contractor shall fully indemnify the loss if any caused to BHEL due to any		
	6.4.	default or non-observance of any of the laws, or any omission or commission or		
		inability on the part of the contractor or his representative.		
		The contractor shall, keep and produce for inspection at all times, forms, registers		
	6.5.	and other records required to be maintained under various statutes in order to		
		enable scrutiny by the Company whenever required.		
		The contractor shall produce to the Company, the documentary proof of payment		
	6.6.	of the said statutory dues. Non-observance of the provisions will be construed as		
	0.0.	default by the Tenderer in making such payment, and payment of his bill will be		
		deferred.		
	6.7.	The Income tax as applicable will be deducted from the bill of the contractor.		
		Each contractor will be required to maintain the daily attendance of his labors in		
	6.8.	the prescribed Performa for accounting payment of minimum wages, deduction		
		towards ESI & PF Contributions, payment of Bonus, leave etc.		
6.9.		The contractor will have to follow the provisions of Payment of Bonus Act 1965		
	0.7.	and Rules 1975, and is liable to pay Bonus to his workers		
		The contractor will have to extend paid National Holidays and Festival Holidays to		
		their workmen as per the provisions of the relevant Act and the Rules thereof.		
	6.10.			
		National Holidays or Festival Holidays contractor shall pay additional wages as		
		prescribed under the provisions of the Act.		
		COMPLAINCE WITH BOCW ACT:		
		The contractor shall get registered and comply with the provisions of BOCW		
	6.11.	Act along with the allied rules and pay cess as per Cess Act along with allied		
		rules. As applicable. The contractor shall also indemnify BHEL from all		
		consequences/liabilities / penalties in case of non-compliance of the provisions		
7.		of BOCW Act along with the allied rules and cess act.		
/.	7 1	PERIOD OF CONTRACT Duration of contract is as mantioned in the Control Information of NIT		
8.	7.1.	Duration of contract is as mentioned in the General Information of NIT FAILURE TO COMPLY WITH CONTRACT		
0.		Notwithstanding anything contained in any other clause, BHEL reserves the right		
	8.1.	to terminate the contract due to any failure on the part of the Tenderer in		
		discharging his obligations under the contract or in the event of his becoming		
		insolvent or going into liquidation. The decision of the BHEL about the failure on		
		the part of the Tenderer shall be final and binding on the tenderer.		
<u></u>		the part of the Tenderer shall be find and binding on the tenderer.		



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	applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process. In case, the Bidder is found having indulged in above activities, suitable action shall be taken by BHEL as per extant policies/ guidelines.		
12.	ARBITRATION & CONCILIATION:		
Except as provided elsewhere in this Contract, in case amicable settlement is n reached between the Parties, in respect of any dispute or difference; arising out the formation, breach, termination, validity or execution of the Contract; or, the respective rights and liabilities of the Parties; or, in relation to interpretation of an provision of the Contract; or, in any manner touching upon the Contract, the either Party may, by a notice in writing to the other Party refer such dispute difference to the sole arbitration of an arbitrator appointed by Head of the BHE Solar Business Division.			
12.2.	The Arbitrator shall pass a reasoned award and the award of the Arbitrator shall be final and binding upon the Parties		
12.3.	Subject as aforesaid, the provisions of Arbitration and Conciliation Act 1996 (India) or statutory modifications or re-enactments thereof and the rules made thereunder and for the time being in force shall apply to the arbitration proceedings under this clause. The seat of arbitration shall be Bengaluru.		
12.4.			
12.5.	Subject to the arbitration in terms of 11.3, the Courts at Bengaluru shall have		
12.6.	Notwithstanding the existence or any dispute or differences and/or reference for the arbitration, the Contractor shall proceed with and continue without hindrance the performance of its obligations under this Contract with due diligence and expedition in a professional manner except where the Contract has been terminated by either Party in terms of this Contract.		
13. COMPENSATION:			
13.1.	"BHEL shall recover the amount of compensation paid to victim(s) by BHEL towards loss of life / permanent disability due to an accident which is attributable to the negligence of contractor, agency or firm or any of its employees as detailed below. a) Victim: Any person who suffers permanent disablement or dies in an accident as defined below. b) Accident: Any death or permanent disability resulting solely and directly from any unintended and unforeseen injurious occurrence caused during the manufacturing/ operation and works incidental thereto at BHEL factories/ offices and precincts thereof, project execution, erection and commissioning, services, repairs and maintenance, trouble shooting, serving, overhaul, renovation and retrofitting, trial operation, performance guarantee testing undertaken by the company or during any works / during working at BHEL Units/ Offices/ townships and premises/ Project Sites. c) Compensation in respect of each of the victims:		



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	(i) In the event of death or permanent disability resulting from Loss of both			
	limbs: ₹10,00,000/- (Rupees Ten Lakhs) (ii) In the event of other permanent disability:₹7,00,000/- (Rupees Seven Lakhs) d) Permanent Disablement: A disablement that is classified as a permanent total disablement under the provision to Section 2 (I) of the Employee's Compensation Act, 1923."			
14	PENALTY/ LD FOR DELAYED DELIVERY:			
	LD/Penalty is applicable for delay delivery as per GCC applicable clause.			
	REVERSE AUCTION- Terms and conditions			
	"BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on			
	www.bhel.com) for this tender. RA shall be conducted among all the techno-			
	commercially qualified bidders.			
	• Start price for RA to be L1 of e-bid envelope price bids.			
	• Minimum 2 Techno-commercially qualified bidders are required to conduct RA.			
	• In case of two or three techno-commercially qualified bidders, there shall be no			
	elimination of H1 bidder			
	(whose quote is highest in sealed envelope price bid).In case of four qualified bidders, H1 bidder to be eliminated whereas in case of			
	five qualified bidders, H1 and H2 bidders are to be eliminated.			
	Wherever six or more techno-commercially qualified bidders are available, RA			
	would be conducted amongst first 50% of the bidders arranged in the order of			
	prices from lowest to highest. Number of bidders eligible for participating in RA			
	would be rounded off to next higher integer value if number of techno -			
15	commercially qualified bidders is odd (e.g. if 7 bids are technically qualified, then			
	RA will be conducted amongst lowest four bidders). However, there will be no			
	elimination of bidders who are MSE or qualifying under PPP-MII Order,2017.			
	Bidders have to submit 'Process compliance form' (to the designated service			
	provider) in the Reverse Auction. Non submission of 'Process compliance form'			
	by the agreed bidder(s) will be considered as tampering of the tender process and			
	will invite action by BHEL as per extant guidelines for suspension of business			
	dealings with suppliers/ contractors (as available on www.bhel.com). However, if			
	the same bidder again defaults on this count in any subsequent tender in the unit, it			
	will be considered as fraud and will invite action by BHEL as per extant guidelines			
	for suspension of business dealings with suppliers/contractors (as available on			
	www.bhel.com." Start price in the REVERSE AUCTION shall be as per Clauses			
	mentioned below. Business rule and event of auction will be furnished by our			
	service provider. The terms and conditions specified herein are to be strictly			
4.5	adhered to for all the activities.			
16	CONCILIATION CLAUSE – Annexure IA			
17	MAKE IN INDIA CLAUSE			
	I. For this procurement, Public Procurement (Preference to MAKE IN			
	INDIA) Order 2017 Dated 15.06.2017, 28.05.2018, 29.05.2019,			
	04.06.2020 and subsequent orders issued by the respective Nodal Ministry			
	shall be applicable. Even if issued after issue of this NIT but before			
	finalization of contract WO against this NIT.			



	ii. In the event of any Nodal Ministry prescribing higher or lower percentage of purchase preference and/ or local content in respect of this procurement same shall be applicable.	
18	FORMATS	
18.1	Third Party Non-Disclosure Agreement (NDA) format	
18.2	EFT Format	
18.3	GCC (enclosed with NIT). In case of any conflict between the General Conditions of Contract and NIT Terms, provisions contained in the NIT terms shall prevail.	

THIRD PARTY NON-DISCLOSURE AGREEMENT

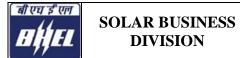
I,	on behalf of the	(Name of	Company),
with BHEL o	that the information received or generated, din on contract is confidential and that the nature of wing conditions are reasonable, and therefore:	•	_
I warrant and	agree as follows:		
indirectly, an	r personnel employed or engaged by our comparty information related to the BHEL. Without sagreed that we will not disclose such information	restricting the gen	erality of the
	nformation: Methods, drawings, processes, inventions, computer programs/data/configura	•	•
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return to Bl limited to: d and all other way obtained	n of contract, I, or any other personnel employed HEL all documents and property of BHEI drawings, blueprints, reports, manuals, comp r materials and all copies thereof relating in any by me during the course of contract. I further a r our company shall not retain copies, notes or all	L, including but no outer programs/data/ way to BHEL's busingree that I, or any other	ot necessarily configuration, ness, or in any hers employed
This obligation	on of confidence shall continue after the conclusion	on of the contract also	0.
BHEL, and an	e that the aforesaid restrictions are necessary and re reasonable given the nature of the business ca at shall be governed by and construed in accordan	rried on by the BHEI	L. I agree that
I enter into the duress.	nis agreement totally voluntarily, with full know	vledge of its meaning	g, and without
Dated at	, this	.day of	20 .
Name			
Company			
Signature			

ANNEXURE IA:

MODEL CONCILIATION CLAUSE FOR CONDUCT OF CONCILIATION UNDER THE BHEL CONCILIATION SCHEME, 2018.

BRIEF PROCEDURE FOR CONDUCT OF CONCILIATION PROCEEDINGS

- 1. The proceedings of Conciliation shall broadly be governed by Part-III of the Arbitration and Conciliation Act 1996 or any statutory modification thereof and as provided herein:
 - The party desirous of resorting to Conciliation shall send an invitation/notice in writing to the other party to conciliate specifying all points of Disputes with details of the amount claimed. The party concerned shall not raise any new issue thereafter. Parties shall also not claim any interest on claims/counter- claims from the date of notice invoking Conciliation till the conclusion of the Conciliation proceedings. If BHEL is to initiate Conciliation, then, the invitation to Conciliate shall be extended to the concerned Stakeholder in Format 7 hereto. Where the stakeholder is to initiate the Conciliation, the notice for initiation of Conciliation shall be sent in Format-8 hereto.
- 2. The party receiving the invitation/notice for Conciliation shall within 30 days of receipt of the notice of Conciliation intimate its consent for Conciliation along with its counter-claims, if any.
- 3. The Conciliation in a matter involving claim or counter-claim (whichever is higher) up to Rs 5 crores shall be carried out by sole Conciliator nominated by BHEL while in a matter involving claim or counter-claim (whichever is higher) of more than Rs 5 crores Conciliation shall be carried out by 3 Conciliators nominated by BHEL. The appointment of Conciliator(s) shall be completed and communicated by the concerned Department/Group of BHEL Unit/Division/Region/Business Group to the other party and the Conciliator(s) within 30 days from the date of acceptance of the invitation to conciliate by the concerned party in the **Format-9**. The details of the Claim, and counter-claim, if any, shall be intimated to the Conciliator(s) simultaneously in **Format-5**.
- 4. The Parties shall be represented by only their duly authorized in-house executives/officers and neither Party shall be represented by a Lawyer.
- 5. The first meeting of the IEC shall be convened by the IEC by sending appropriate communication/notice to both the parties as soon as possible but not later than 30 days from the date of his/their appointment. The hearings in the Conciliation proceeding shall ordinarily be concluded within two (2) months



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and, in exceptional cases where parties have expressed willingness to settle the matter or there exists possibility of settlement in the matter, the proceedings may be extended by the IEC by a maximum of further 2 months with the consent of the Parties subject to cogent reasons being recorded in writing.

- 6. The IEC shall thereafter formulate recommendations for settlement of the Disputes supported by reasons at the earliest but in any case within 15 days from the date of conclusion of the last hearing. The recommendations so formulated along with the reasons shall be furnished by the IEC to both the Parties at the earliest but in any case within 1 month from the date of conclusion of the last hearing.
- 7. Response/modifications/suggestions of the Parties on the recommendations of the IEC are to be submitted to the IEC within time limit stipulated by the IEC but not more than 15 days from the date of receipt of the recommendations from the IEC.
- 8. In the event, upon consideration, further review of the recommendations is considered necessary, whether by BHEL or by the other Party, then, the matter can be remitted back to the IEC with request to reconsider the same in light of the issues projected by either/both the Parties and to submit its recommendations thereon within the following 15 days from the date of remitting of the case by either of the Parties.
- 9. Upon the recommendations by the Parties, with or without modifications, as considered necessary, the IEC shall be called upon to draw up the Draft Settlement Agreement in terms of the recommendations.
- 10. When a consensus can be arrived at between the parties only in regard to any one or some of the issues referred for Conciliation the draft Settlement Agreement shall be accordingly formulated in regard to the said Issue(s), and the said Settlement Agreement, if signed, by the parties, shall be valid only for the said issues. As regards the balance issues not settled, the parties may seek to resolve them further as per terms and conditions provided in the contract.
- 11. In case no settlement can be reached between the parties, the IEC shall by a written declaration, pronounce that the Conciliation between the parties has failed and is accordingly terminated.
- 12. Unless the Conciliation proceedings are terminated in terms of para 22 (b), (c) & (d) herein below, the IEC shall forward his/its recommendations as to possible terms of settlement within one (1) month from the date of last hearing. The date of first hearing of Conciliation shall be the starting date for calculating the period of 2 months.



- 13. In case of 3 members IEC, 2 members of IEC present will constitute a valid quorum for IEC and meeting can take place to proceed in the matter after seeking consent from the member who is not available. If necessary, videoconferencing may be arranged for facilitating participation of the members. However, the IEC recommendations will be signed by all members. Where there is more than one (1) Conciliator, as a general rule they shall act jointly. In the event of differences between the Members of IEC, the decision/recommendations of the majority of the Members of IEC shall prevail and be construed as the recommendation of the IEC.
- 14. The Draft Settlement Agreement prepared by the IEC in terms of the consensus arrived at during the Conciliation proceedings between the Parties shall be given by the IEC to both the parties for putting up for approval of their respective Competent Authority.
- 15. Before submitting the draft settlement agreement to BHEL's Competent Authority viz. the Board Level Committee on Alternative Dispute Resolution (BLCADR) for approval, concurrence of the other party's Competent Authority to the draft settlement agreement shall be obtained by the other party and informed to BHEL within 15 days of receipt of the final draft settlement agreement by it. Upon approval by the Competent Authority, the Settlement Agreement would thereafter be signed by the authorized representatives of both the Parties and authenticated by the members of the IEC.
- 16. In case the Draft Settlement Agreement is rejected by the Competent Authority of BHEL or the other Party, the Conciliation proceedings would stand terminated.
- 17. A Settlement Agreement shall contain a statement to the effect that each of the person(s) signing thereto (i) is fully authorized by the respective Party(ies) he/she represents, (ii) has fully understood the contents of the same and (iii) is signing on the same out of complete freewill and consent, without any pressure, undue influence.
- 18. The Settlement Agreement shall thereafter have the same legal status and effect as an arbitration award on agreed terms on the substance of the dispute rendered by an arbitral tribunal passed under section 30 of the Arbitration and Conciliation Act, 1996.
- 19. Acceptance of the Draft Settlement Agreement/recommendations of the Conciliator and/or signing of the Settlement Agreement by BHEL shall however, be subject to withdrawal/closure of any arbitral and/or judicial proceedings initiated by the concerned Party in regard to such settled issues.
- 20. Unless otherwise provided for in the agreement, contract or the Memorandum of Understanding, as the case may be, in the event of likelihood of prolonged

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absence of the Conciliator or any member of IEC, for any reason/incapacity, the Competent Authority/Head of Unit/Division/Region/Business Group of BHEL may substitute the Conciliator or such member at any stage of the proceedings. Upon appointment of the substitute Conciliator(s), such reconstituted IEC may, with the consent of the Parties, proceed with further Conciliation into the matter either de-novo or from the stage already reached by the previous IEC before the substitution.

- 21. The proceedings of Conciliation under this Scheme may be terminated as follows:
 - **a.** On the date of signing of the Settlement agreement by the Parties; or,
 - **b.** By a written declaration of the IEC, after consultation with the parties, to the effect that further efforts at conciliation are no longer justified, on the date of the declaration; or,
 - **c.** By a written declaration of the Parties addressed to the IEC to the effect that the Conciliation proceedings are terminated, on the date of the declaration; or,
 - **d.** By a written declaration of a Party to the other Party and the IEC, if appointed, to the effect that the Conciliation proceedings are terminated, on the date of the declaration; or,
 - **e.** On rejection of the Draft Settlement Agreement by the Competent Authority of BHEL or the other Party.
- 22. The Conciliator(s) shall be entitled to following fees and facilities:

Sl No	Particulars	Amount
1	Sitting fees	Each Member shall be paid a Lump Sum fee of Rs 75,000/- for the whole case payable in terms of paragraph No. 27 herein below.
2	Towards drafting of settlement agreement	In cases involving claim and/or counter-claim of up to Rs 5crores. Rs 50,000/- (Sole Conciliator) In cases involving claim and/or counter-claim of exceeding Rs 5 crores but less than Rs 10 crores. Rs 75,000 (per Conciliator) In cases involving claim and/or counter-claim of more than Rs 10 crores. Rs 1,00,000/- (per Conciliator) Note: The aforesaid fees for the drafting of the Settlement Agreement shall be paid on the,Signing of the Settlement Agreement after approval of the Competent Authority or Rejection of the proposed Settlement Agreement by the Competent Authority of BHEL.

3	Secretarial expenses	Rs 10,000/- (one time) for the whole case for Conciliation by a Sole Member IEC. Where Conciliation is by multi member Conciliators –Rs 30,000/- (one time)- to be paid to the IEC
4	Travel and transportation	As per entitlement of equivalent officer (pay scale wise) in BHEL
	Others	As per the extant entitlement of whole time Functional Directors in BHEL. Ordinarily, the IEC Member(s) would be entitled to travel by air Economy Class
5	Venue for meeting	Unless otherwise agreed in the agreement, contract or the Memorandum of Understanding, as the case may be, the venue/seat of proceedings shall be the location of the concerned Unit / Division / Region / Business Group of BHEL. Without prejudice to the seat/venue of the Conciliation being at the location of concerned BHEL Unit / Division / Region / Business Group, the IEC after consulting the Parties may decide to hold the proceedings at any other place/venue to facilitate the proceedings. Unless, Parties agree to conduct Conciliation at BHEL premises, the venue is to be arranged by either Party alternately.

- 23. The parties will bear their own costs including cost of presenting their cases/evidence/witness(es)/expert(s) on their behalf. The parties agree to rely upon documentary evidence in support of their claims and not to bring any oral evidence in IEC proceedings.
- 24. If any witness(es) or expert(s) is/are, with the consent of the parties, called upon to appear at the instance of the IEC in connection with the matter, then, the costs towards such witness(es)/expert(s) shall be determined by the IEC with the consent of the Parties and the cost so determined shall be borne equally by the Parties.
- 25. The other expenditures/costs in connection with the Conciliation proceedings as well as the IEC's fees and expenses shall be shared by the Parties equally.
- 26. Out of the lump sum fees of Rs 75,000/- for Sitting Fees, 50% shall be payable after the first meeting of the IEC and the remaining 50% of the Sitting Fees shall be payable only after termination of the conciliation proceedings in terms of para 22 hereinabove.
- 27. The travelling, transportation and stay at outstation shall be arranged by concerned Unit as per entitlements as per Serial No. 4 of the Table at para 23 above, and in case such arrangements are not made by the BHEL Unit, the same shall be reimbursed to the IEC on actuals limited to their entitlement as per



TENDER NO. TGPWCC0026

Serial No. 4 of the Table at Para 23 above against supporting documents. The IEC Member(s) shall submit necessary invoice for claiming the fees/reimbursements.

- 28. The Parties shall keep confidential all matters relating to the conciliation proceedings. Confidentiality shall extend also to the settlement agreement, except where its disclosure is necessary for purposes of its implementation and enforcement or as required by or under a law or as per directions of a Court/Governmental authority/ regulatory body, as the case may be.
- 29. The Parties shall not rely upon or introduce as evidence in any further arbitral or judicial proceedings, whether or not such proceedings relate to the Disputes that is the subject of the Conciliation proceedings:
 - **a.** Views expressed or suggestions made by the other party in respect of a possible settlement of the Disputes;
 - **b.** admissions made by the other party in the course of the Conciliator proceedings;
 - c. proposals made by the Conciliator;
 - **d.** The fact that the other Party had indicated his willingness to accept a proposal for settlement made by the Conciliator.
- 30. The Parties shall not present the Conciliator(s) as witness in any Alternative Dispute Resolution or Judicial proceedings in respect of a Disputes that is/was the subject of that particular Conciliation proceeding.
- 31. None of the Conciliators shall act as an arbitrator or as a representative or counsel of a Party in any arbitral or judicial proceeding in respect of a Disputes that is/was the subject of that particular Conciliation proceeding.
- 32. The Parties shall not initiate, during the Conciliation proceedings, any arbitral or judicial proceedings in respect of a Disputes that is the subject matter of the Conciliation proceedings except that a Party may initiate arbitral or judicial proceedings where, in his opinion, such proceedings are necessary for preserving his rights including for preventing expiry of period of limitation. Unless terminated as per the provisions of this Scheme, the Conciliation proceedings shall continue notwithstanding the commencement of the arbitral or judicial proceedings and the arbitral or judicial proceedings shall be primarily for the purpose of preserving rights including preventing expiry of period of limitation.
- 33. The official language of Conciliation proceedings under this Scheme shall be English unless the Parties agree to some other language.

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Format 5 to BHEL Conciliation Scheme, 2018 STATEMENT OF CLAIMS/COUNTER CLAIMS TO BE SUBMITTED TO THE IEC BY BOTH THE PARTIES

- 1. Chronology of the Disputes
- 2. Brief of the Contract/MoU/Agreement/LOI/LOA
- 3. Brief history of the Disputes:
- 4. Issues:
- 5. Details of Clam(s)/Counter Claim(s):

SI. No.	Description of claim(s)/Counter Claim	Amount (in INR)Or currency applicable in the contract	Relevant contract clause

6. Basis/Ground of claim(s)/counter claim(s) (along with relevant clause of contract)

Note— The Statement of Claims/Counter Claims may ideally be restricted to maximum limit of 20 pages. Relevant documents may be compiled and submitted along with the statement of Claims/Counter Claims. The statement of Claims/Counter Claims is to be submitted to all IEC members and to the other party by post as well as by email.

TENDER NO. TGPWCC0026

FORMAT-7

FORMAT FOR NOTICE INVOKING CONCILIATION CLAUSE BY BHEL FOR REFERRING THE DISPUTES TO CONCILIATION THROUGH IEC

To,

M/s. (Stakeholder's name)

Subject: NOTICE FOR INVOCATION OF THE CONCILIATION CLAUSE OF THE CONTRACT BY BHEL

Ref: Contract No/MoU/Agreement/LOI/LOA& date_	
Dear Sir/Madam.	

As you are aware, with reference to above referred Contract/MoU/Agreement/LOI/LOA, certain disputes have arisen, which, in-spite of several rounds of mutual discussions and various correspondences have remained unresolved. The brief particulars of our claims which arise out of the above- referred Contract/MoU/Agreement/LOI/LOA are reproduced hereunder:

S1. No.	Claim description	Amount involved

As you are aware, there is a provision in the captioned Contract/MoU/Agreement/LOI/ LOA for referring disputes to conciliation.

In terms of Clause --------of Procedure i.e., Annexure ----- to the Contract/MoU /Agreement / LOI / LOA, we hereby seek your consent to refer the matter to Conciliation by Independent Experts Committee to be appointed by BHEL. You are invited to provide your consent in writing to proceed with conciliation into the above mentioned disputes within a period of 30 days from the date of this letter along with details of counter-claims, if any, which you might have with regard to the subject Contract/ MoU/ Agreement/ LOI/ LOA.

Please note that upon receipt of your consent in writing within 30 days of the date of receipt of this letter by you, BHEL shall appoint suitable person(s) from the BHEL Panel of Conciliators.

This letter is being issued without prejudice to our rights and contentions available under the contract and law.



TENDER NO. TGPWCC0026

Thanking you Yours faithfully Representative of BHEL

Note: The Format may be suitably modified, as required, based on facts and circumstances of the case.

TENDER NO. TGPWCC0026

FORMAT-8 FORMAT FOR NOTICE INVOKING CONCILIATION CLAUSE BY A STAKEHOLDER FOR REFERRING THE DISPUTES TO CONCILIATION THROUGH IEC To.

BHEL (Head of the Unit/Division/Region/Business Group)

Ref: Contract No/MoU/Agreement/LOI/LOA& date_____

Subject: NOTICE FOR INVOCATION OF THE CONCILIATION CLAUSE OF THE CONTRACT BY A STAKEHOLDER

Dea	ır Sir/M	ladam,							
	As	you	are	aware,	with	reference	to	above	referred
Con	tract/M	IoU/Agr	eement	/LOI/LOA,	certain	disputes have	arisen	, which,	in-spite of
seve	eral rou	inds of	mutual	discussions	s and va	arious corresp	ondenc	es have	remained
unre	esolved.	The bri	ief parti	culars of o	ur claim	s which have	arisen	out of	the above-

S1.	Claim description Amount involved	
No.		

referred Contract/MoU/Agreement/LOI/LOA are enumerated hereunder:

As you are aware, there is a provision in the captioned Contract/MoU/Agreement/LOI/ LOA for referring inter-se disputes of the Parties to conciliation.

We wish to refer the above-said disputes to Conciliation as per the said Clause of the captioned Contract/MoU/Agreement/LOI/ LOA. In terms of Clause ------of Procedure i.e., Annexure ----- to the Contract/MoU /Agreement / LOI / LOA, we hereby invite BHEL to provide its consent in writing to proceed with conciliation into the above mentioned disputes within a period of 30 days from the date of this letter along with details of counter-claims, if any, which it might have with regard to the subject Contract/ MoU/ Agreement/ LOI/ LOA and to appoint suitable person(s) as Conciliator(s) from the BHEL Panel of Conciliators.

This letter is being issued without prejudice to our rights and contentions available under the contract and law.

Thanking you
Yours faithfully

Representative of the Stakeholder

Note: The Format may be suitably modified, as required, based on facts and circumstances of the case.

TENDER NO. TGPWCC0026

FORMAT-9

FORMAT FOR INTIMATION TO THE STAKEHOLDER ABOUT APPOINTMENT OF CONCILIATOR/IEC
To,
M/s. (Stakeholder's name)
Subject: INTIMATION BY BHEL TO THE STAKEHOLDER AND CONCILIATOR(S) ABOUT APPOINTMENT OF CONCILIATOR/IEC
Ref: Contract No/MoU/Agreement/LOI/LOA& date Sir,
This is with reference to letter dated regarding reference of the disputes arising /MoU/Agreement/LOI/LOA to conciliation and appointment of Conciliator(s). In pursuance of the said letter, the said disputes are assigned to conciliation and the following persons are nominated as Conciliator(s) for conciliating and assisting the Parties to amicably resolve the disputes in terms of the Arbitration & Conciliation Act, 1996 and the Procedure to the subject Contract/MoU/Agreement/LOI/LOA, if
possible. Name and contact details of
Conciliator(s)
 a) b) c) You are requested to submit the Statement of Claims or Counter-Claims (strike off whichever is inapplicable) before the Conciliator(s) in Format 5 (enclosed herewith) as per the time limit as prescribed by the Conciliator(s). Yours faithfully,
Representative of BHEL
CC: To Conciliator(s) for Kind Information please. Encl: As above
Note: The Format may be suitably modified, as required, based on facts and

circumstances of the case.





GENERAL CONDITIONS CONTRACT

SOLAR BUSINESS DIVISION BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking) PROF. CNR RAO CIRCLE, IISC POST **MALLESHWARAM** BENGALURU - 560012



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CHAPTER -1

1. GENERAL INSTRUCTION TO TENDERERS

1.1. DESPATCH INSTRUCTION

- The General Conditions of Contract form part of the Tender specifications. All pages of the tender documents shall be duly signed, stamped and submitted along with the offer in token of complete acceptance thereof. The information furnished shall be complete by itself. The tenderer is required to furnish all the details and other documents as required in the following pages
- ii) Tenderers are advised to study all the tender documents carefully. Any submission of tender by the tenderer shall be deemed to have been done after careful study and examination of the tender documents and with the full understanding of the implications thereof. Should the tenderers have any doubt about the meaning of any portion of the Tender Specification or find discrepancies or omissions in the drawings or the tender documents issued are incomplete or shall require clarification on any aspects, the scope of work etc., he shall contact the authority inviting the tender well in time (so as not to affect last date of submission) for clarification before the submission of the tender. Tenderer's request for clarifications shall be with reference to Sections and Clause numbers given in the tender documents. The tender specifications and terms and conditions shall be deemed to have been accepted by the tenderer in the offer. Pre requirements and conditions shall be liable for rejection.
- iii) Integrity pact (IP): If NIT calls for Integrity Pact, the same shall be duly signed & stamped by the authorised signatory & submitted along with tender document.

1.2. SUBMISSION OF TENDERS

- 1.2.1 The tenderers must submit their tenders as per instructions in the NIT
- 1.2.2 BHEL takes no responsibility for delay, loss or non-receipt of tenders sent by post/courier. The tenders received after the specified time of their submission are treated as 'Late Tenders' and shall not be considered under any circumstances. Offers received by Fax/Email/Internet shall be considered as per terms of NIT.
- 1.2.3 Tenders shall be opened by authorised Officer of BHEL at his office at the time and date as specified in the NIT, in the presence of such of those tenderers or their authorised representatives who may be present



- 1.2.4 Tenderers whose bids are found techno commercially qualified shall be informed the date and time of opening of the Price Bids and such Tenderers may depute their representatives to witness the opening of the price bids. BHEL's decision in this regard shall be final and binding.
- 1.2.5 Before submission of Offer, the tenderers are advised to inspect the site of work and the environments and be well acquainted with the actual working and other prevalent conditions, facilities available, position of material and labour, means of transport and access to Site, accommodation, etc. No claim will be entertained later on the grounds of lack of knowledge of any of these conditions.

1.3. LANGUAGE

- 1.3.1 The tenderer shall quote the rates in English language and international numerals. These rates shall be entered in figures as well as in words. For the purpose of the tenders, the metric system of units shall be used.
- 1.3.2 All entries in the tender shall either be typed or written legibly in ink. Erasing and overwriting is not permitted and may render such tenders liable for rejection. All cancellations and insertions shall be duly attested by the tenderer.

1.4 PRICE DISCREPANCY:

- 1.4.1 Conventional (Manual) Price Bid opening:
- If, in the price structure quoted for the required goods/services/works, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless in the opinion of BHEL there is obvious misplacement of decimal point in the unit price, in which case the total price as quoted shall govern and the unit price corrected accordingly
- If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected;
- iii) If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject of (i) and (ii) above.
- If there is such discrepancy in an offer, the same shall be conveyed to the bidder with iv) target date up to which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of BHEL, the bid is liable to be ignored.
- v) In case of lump sum price, if there is any difference between the amount in figures and in words, the amount quoted by the bidder in words shall be taken as correct.



- vi) In case of omission in quoting any rate for one or more items, the evaluation shall be done considering the highest quoted rate obtained against the respective items by other tenderers for the subject tender. If the tenderer becomes L-1, the notional rates for the omission items shall be the lowest rates quoted for the respective items by the other tenderers against the respective omission items for the subject job and the 'Total quoted price (loaded for omissions)' shall be arrived at. However, the overall price remaining the same as quoted originally, the rates for all the items in the 'Total quoted price (loaded for omissions)' shall be reduced item wise in proportion to the ratio of 'Original' total price and the 'Total quoted price (loaded for omissions)".
- 1.4.2 Reverse Auction: In case of Reverse Auction, the successful bidder shall undertake to execute the work as per overall price offered by him during the Reverse Auction process. In case of omission of rates, the procedure shall be as per 'Guidelines for Reverse Auction' enclosed.
- i) Offers from tenderers who are under suspension (banned) by any Unit/Region/Division of BHEL shall not be considered. ii) Offers from tenderers who do not comply with the latest guidelines of Ministry/ Commissions of Govt of India shall not be considered.

1.5. **EVALUATION OF BIDS**

- i) Technical Bids submitted by the tenderer will be opened first and evaluated for fulfilling the Pre-Qualification criteria and other conditions in NIT/Tender documents, based on documentary evidences submitted along with the offer, BHEL reserves the right to ask for proofs/documents, clarification in relation to Technical/commercial data during tender evaluation
- ii) Price Bids of shortlisted bidders shall only be opened either through the conventional price bid opening or through electronic Reverse Auction, at the discretion of BHEL
- Price Bids of unqualified bidders shall not be opened. Reasons for rejection shall be intimated to the vendor before the opening of Price bid.

1.6. **DATA TO BE ENCLOSED**

The following information in full shall be furnished by the tenderer. Non-submission of this information may lead to rejection of the offer.

- i) INCOME TAX PERMANENT ACCOUNT NUMBER, GSTIN, SAC, HSN Certified copies of PAN, GSTIN shall be furnished along with tender. The names, addresses and contact information of the Directors/Partners shall be furnished along with the offer.
- ii) An attested copy of the Power of Attorney, in case the tender is signed by an individual other than the sole proprietor.



iii) IN CASE OF INDIVIDUAL TENDERER:

His / her full name, address, PAN, GSTIN and place & nature of business to be furnished. iv)

IN CASE OF PARTNERSHIP FIRM

The names of all the partners and their addresses, a copy of the partnership deed/instrument of partnership shall be enclosed.

v) IN CASE OF COMPANIES:

Date and place of registration including date of commencement certificate in case of Public Companies (certified copies of Memorandum and articles of Association are also to be furnished). Nature of business carried on by the Company and the provisions of the Memorandum relating thereof.

1.7. AUTHORISATION AND ATTESTATION

Tenders shall be signed by a person duly authorised/empowered to do so. An attested copy of the Power of Attorney, in case the tender is signed by an individual other than the sole proprietor shall be submitted along with the tenders

1.8. **EARNEST MONEY DEPOSIT**

1.8.1 Every tender must be accompanied by the prescribed amount of Earnest Money Deposit (EMD) in the manner described herein.

The EMD may be accepted only in the following forms:

- (i) Electronic Fund Transfer credited in BHEL account (before tender opening)
- (ii) Banker's cheque/ Pay order/ Demand draft, in favour of BHEL (along with offer) In case total EMD amount is more than Rs.20 Lakh, the amount in excess of Rs.20 lakh maybe accepted in the form of Bank Guarantee from scheduled bank. The Bank Guarantee in such cases shall be valid for at-least six months.
- (iii) Through SBI collect/RTGS (before tender opening)
- (iv) No other form of EMD remittance shall be acceptable to BHEL
- 1.8.2 EMD by the bidder will be forfeited as per Tender Documents if
- i) After opening the tender and within the offer validity period, the tenderer revokes his/her tender or makes any modification in his tender which is not acceptable to BHEL.
- The Contractor fails to deposit the required Security deposit or commence the work ii) within the period as per LOI/ Contract.
- EMD by the tenderer shall be withheld in case any action on the tenderer is envisaged in derailing the tender process by unlawful means.

1.8.3 EMD shall not carry any interest.



1.8.4 In the case of unsuccessful bidders, the Earnest Money will be refunded to them within a reasonable time after acceptance of award by successful tenderer.

1.8.5 EMD of successful tenderer will be converted as part of Security Deposit

1.9. **SECURITY DEPOSIT**

"Bidder agrees to submit performance security required for execution of the contract within the time period mentioned. In case of delay in submission of performance security, enhanced performance security which would include interest (SB/ rate + 6%) for the delayed period, shall be submitted by the bidder. Further, if performance security is not submitted till such time the first bill becomes due, the amount of performance security due shall be recovered as per terms defined in NIT I contract, from the bills along with due interest "

The total amount of Security Deposit will be 5% of the contract value (including all applicable taxes) EMD of the successful tenderer shall be converted and adjusted towards the required amount of Security Deposit.

1.9.1 Modes of Security deposit:

The balance amount to make up the required Security Deposit of 5% of the contract value may be accepted in the following forms:

- i) Cash (as permissible under the extant Income Tax Act) ii) Local cheques of Scheduled Banks (subject to realization)/ Pay Order/ Demand Draft/ Electronic Fund Transfer in favour of BHFI
- iii) Bank Guarantee from Scheduled Banks/ Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL iv) Fixed Deposit Receipt issued by Scheduled Banks/ Public Financial Institutions as defined in the Companies Act (FDR should be in the name of the Contractor, a/c BHEL)
- v) Securities available from Indian Post offices such as National Savings Certificates, Kisan Vikas Patras etc. (held in the name of Contractor furnishing the security and duly endorsed/ hypothecated/ pledged, as applicable, in favour of BHEL) (Note: BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith) vi) 50% of the required Security Deposit, including the EMD, should be paid before start of the work. Balance of the Security Deposit can be collected by deducting 10% of the gross amount progressively from each of the running bills of the Contractor till the total amount of the required Security Deposit is collected. If the value of work done at any time exceeds the contract value, the amount of Security Deposit shall be correspondingly enhanced and the additional Security Deposit shall be immediately deposited by the Contractor or recovered from payment/s due to the Contractor. Security Deposit shall be released to the Contractor upon fulfilment of contractual obligations as per terms of the contract.

1.9.2 The Security Deposit shall not carry any interest.



- 1.9.3 The validity of Bank Guarantees towards Security Deposit shall be initially up to the completion period as stipulated in the Letter of Intent/Award (plus maintenance period if applicable), and 03 months claim period. The same shall be kept valid by proper renewal till the acceptance of Final Bills of the Contractor, by BHEL
- 1.9.4 BHEL reserves the right of forfeiture of Security Deposit in addition to other claims and penalties in the event of the Contractor's failure to fulfil any of the contractual obligations or in the event of termination of contract as per terms and conditions of contract. BHEL reserves the right to set off the Security Deposit against any claims of other contracts with BHEL.

1.10. REFUND OF SECURITY DEPOSIT

50% of the security deposit may be refunded on completion of the work after payment of the final bill and the balance 50% of the security deposit is refunded only after the expiry of the maintenance period from date of completion of work as stipulated in the contract concerned.

1.10.1 DEFECTS LIABILITY PERIOD:

The contractor shall be responsible to make good and remedy at his own expenses within such period as may be stipulated by the Engineer-in-charge, any defect which may develop or may be noticed before the expiry of the maintenance period of six months or as stipulated in NIT hereto from the certified date of completion and intimation of which has been sent to the contractor within seven days of the expiry of the said period by a letter sent by hand delivery or by registered post or Email. If contractor fails to attend to the above, defect will be rectified at contractor's risk & cost and same will be deducted from the security deposit/payable amounts available with BHEL.

1.11. BANK GUARANTEES

Where ever Bank Guarantees are to be furnished/submitted by the contractor, the following shall be complied with

- i) Bank Guarantees shall be from Scheduled Banks / Public Financial Institutions as defined in the Companies Act. ii) The Bank Guarantees shall be as per prescribed BHEL formats.
- It is the responsibility of the bidder to get the Bank Guarantees revalidated/extended iii) for the required period (subject to a minimum period of six months), as per the advice of BHEL. BHEL shall not be liable for issue of any reminders regarding expiry of the Bank Guarantees.
- iv) In case extension/further extensions of any Bank Guarantees are not required, the bidders shall ensure that the same is explicitly endorsed by BHEL



- V) In case the Bank Guarantees are not extended before the expiry date, BHEL reserves the right to invoke the same by informing the concerned Bank in writing, without any advance notice/communication to the concerned bidder.
- vi) Bidders to note that any corrections to Bank Guarantees shall be done by the issuing Bank, only through an amendment in an appropriate non judicial stamp paper.
- vii) The Original Bank Guarantee shall be sent directly by the Bank to BHEL under Registered Post (Acknowledgement Due).

1.12. VALIDITY OF OFFER

The rates in the Tender shall be kept open for acceptance for a minimum period of Ninety (90) DAYS from latest due date of offer submission (including extension, if any). In case BHEL calls for negotiations, such negotiations shall not amount to cancellation or withdrawal of the original offer which shall be binding on the tenderers.

1.13 EXECUTION OF CONTRACT AGREEMENT

The successful tenderer's responsibility under this contract commences from the date of issue of the Letter of Intent by BHEL. The Tenderer shall submit an unqualified acceptance to the Letter of Intent/Award within the period stipulated therein.

The successful tenderer shall be required to execute an agreement in the prescribed form, with BHEL, within fifteen days (15 days) after the acceptance of the Letter of Intent/Award, and in any case before releasing the first running bill. The contract agreement shall be signed by a person duly authorized/empowered by the tenderer. The expenses for preparation of agreement document shall be borne by Tenderer.

1.14. REJECTION OF TENDER AND OTHER CONDITIONS

- 1.14.1 The acceptance of tender will rest with BHEL which does not bind itself to accept the lowest tender or any tender and reserves to itself full rights for the following without assigning any reasons whatsoever: -
- a. To reject any or all of the tenders.
- b. To split up the work amongst two or more tenderers as per NIT
- c. To award the work in part if specified in NIT
- d. In case of either of the contingencies stated in (b) and (c) above, the time for completion as stipulated in the tender shall be applicable.



- 1.14.2 Conditional tenders, unsolicited tenders, tenders which are incomplete or not in the form specified or defective or have been materially altered or not in accordance with the tender conditions, specifications etc., are liable to be rejected.
- 1.14.3 Tenders are liable to be rejected in case of unsatisfactory performance of the tenderer with BHEL, or tenderer under suspension (hold/banning /delisted) by any unit / region / division of BHEL or tenderers who do not comply with the latest guidelines of Ministry/Commissions of Govt of India. BHEL reserves the right to reject a bidder in case it is observed that they are overloaded and may not be in a position to execute this job. The decision of BHEL will be final in this regard.
- 1.14.4 If a tenderer who is a proprietor expires after the submission of his tender or after the acceptance of his tender, BHEL may at their discretion, cancel such tender. If a partner of a firm expires after the submission of tender or after the acceptance of the tender, BHEL may then cancel such tender at their discretion, unless the firm retains its character.
- 1.14.5 BHEL will not be bound by any Power of Attorney granted by changes in the composition of the firm made subsequent to the execution of the contract. They may, however, recognize such power of Attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the contractor concerned.
- 1.14.6 If the tenderer deliberately gives wrong information in his tender, BHEL reserves the right to reject such tender at any stage or to cancel the contract if awarded and forfeit the Earnest Money/Security Deposit/any other money due.
- 1.14.7 Canvassing in any form in connection with the tenders submitted by the Tenderer shall make his offer liable to rejection.
- 1.14.8 In case the Proprietor, Partner or Director of the Company/Firm submitting the Tender, has any relative or relation employed in BHEL, the authority inviting the Tender shall be informed, along with the Offer. Failing to do so, BHEL may, at its sole discretion, reject the tender or cancel the contract and forfeit the Earnest Money/Security Deposit.
- 1.14.9 The successful tenderer should not sub-contract part or complete work detailed in the tender specification undertaken by him without written permission of BHEL's Construction Manager/Site Incharge. The tenderer is solely responsible to BHEL for the work awarded to him.
- 1.14.10 The Tender submitted by a techno commercially qualified tenderer shall become the property of BHEL who shall be under no obligation to return the same to the bidder. However unopened price bids and late tenders shall be returned to the bidders after finalization of contract.
- 1.14.11 Unsolicited discount received after the due date and time of Bid Submission shall not be considered for evaluation. However, if the party who has submitted the unsolicited



discount/rebate becomes the L-I party, then the awarded price i.e contract value shall be worked out after considering the discount so offered.

1.14.12 BHEL shall not be liable for any expenses incurred by the bidder in the preparation of the tender irrespective of whether the tender is accepted or not.

1.15 **BHEL Fraud Prevention Policy**:

The bidder along with its associate/ collaborators/sub-contractors/ Sub-Vendors/ Consultants/service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website http://www.bhel.com and shall immediately bring to the notice of BHEL Management about any fraud or suspected fraud as soon as it comes to their notice. Fraud prevention policy and list of Nodal officers shall be hosted on BHEL website, vendor portals of Units/Regions Internet.

CHAPTER-2

- 2.1 DEFINITION: The following terms shall have the meaning hereby assigned to them except where the context otherwise requires
- i) BHEL shall mean Bharat Heavy Electricals Limited, a company registered under Companies Act 1956, with its Registered Office at BHEL HOUSE, SIRI FORT, NEW DELHI - 110 049, or its Authorised Officers or its Site Engineers or other employees authorised to deal with any matters with which these persons are concerned on its behalf.
- ii) "EXECUTIVE DIRECTOR" or 'GROUP GENERAL MANAGER' or "GENERAL MANAGER (Incharge)" or "GENERAL MANAGER" shall mean the Officer in SOLAR BUSINESS DIVISION, Prof. CNR Rao Circle, IISc Post, Malleshwaram, BENGALURU - 560012
- iii) "COMPETENT AUTHORITY" shall mean Executive Director or Group General Manager or General Manager (In-charge) or General Manager or BHEL Officers who are empowered to act on behalf of the Executive Director or General Manager (In-charge) or General Manager of BHEL.
- iv) "ENGINEER" or "ENGINEER IN CHARGE" shall mean an Officer of BHEL as may be duly appointed and authorized by BHEL to act as "Engineer" on his behalf for the purpose of the Contract, to perform the duty set forth in this General Conditions of Contract and other Contract documents. The term also includes 'CONSTRUCTION MANAGER' or 'SITE

INCHARGE' as well as Officers



- v) "SITE" shall mean the places or place at which the plants/equipment are to be erected and services are to be performed as per the specification of this Tender.
- vi) "CLIENT OF BHEL" or "CUSTOMER" shall mean the project authorities with whom BHEL has entered into a contract for supply of equipment or provision of services.
- vii) "CONTRACTOR" shall mean the successful Bidder/Tenderer who is awarded the Contract and shall include the Contractor's successors, heirs, executors, administrators and permitted assigns.
- "CONTRACT" or "CONTRACT DOCUMENT" shall mean and include the Work viii) Order, Contract Agreement, the accepted appendices of Rates, Schedules, Quantities if any, General Conditions of Contract, Special Conditions of Contract, Instructions to the Tenderers, Drawings, Technical Specifications, the Special Specifications if any, the Tender documents, subsequent amendments mutually agreed upon and the Letter of Intent/Acceptance issued by BHEL. Any conditions or terms stipulated by the contractor in the tender documents or subsequent letters shall not form part of the contract unless, specifically accepted in writing by BHEL in the Letter of Intent/Award and incorporated in the agreement.
- ix) "GENERAL CONDITIONS OF CONTRACT" shall mean the 'Instructions to Tenderers' and 'General Conditions of Contract' pertaining to the work for which above tenders have been called for.
- x) "TENDER SPECIFICATION" or "TENDER" or "TENDER DOCUMENTS" shall mean General Conditions, Common Conditions, Special Conditions, Price Bid, Rate Schedule, Technical Specifications, Appendices, Annexures, Corrigendum's, Amendments, Forms, procedures, Site information, etc and drawings/documents pertaining to the work for which the tenderers are required to submit their offers. Individual specification number will be assigned to each Tender Specification.
- xi) "LETTER OF INTENT" shall mean the intimation by a Post/Fax/email to the tenderer that the tender has been accepted in accordance with provisions contained in the letter. The responsibility of the contractor commences from the date of issue of this letter and all terms and conditions of the contract are applicable from this date.
- xii) "COMPLETION TIME" shall mean the period by 'date/month' specified in the 'Letter of Intent/Award' or date mutually agreed upon for handing over of the intended scope of work, the erected equipment/plant which are found acceptable by the Engineer, being of required standard and conforming to the specifications of the Contract.
- xiii) "PLANT" shall mean and connote the entire assembly of the plant and equipment's covered by the contract.



- xiv) "EQUIPMENT" shall mean equipment, machineries, materials, structural, electrical and other components of the plant covered by the contract.
- xv) "TESTS" shall mean and include such test or tests to be carried out on the part of the contractor as are prescribed in the contract or considered necessary by BHEL, in order to ascertain the quality, workmanship, performance and efficiency of the contractor or part thereof.
- xvi) "APPROVED", "DIRECTED" or "INSTRUCTED" shall mean approved, directed or instructed by BHEL.
- xvii) "WORK or CONTRACT WORK" shall mean and include supply of all categories of labour, specified consumables, tools and tackles and Plants required for complete and satisfactory site transportation, handling, stacking, storing, erecting, testing and commissioning of the equipment's to the entire satisfaction of BHEL.
- xviii) "SINGULAR AND PLURALS ETC" words carrying singular number shall also include plural and vice versa, where the context so requires. Words imparting the masculine Gender shall be taken to include the feminine Gender and words imparting persons shall include any Company or Associations or Body of Individuals, whether incorporated or not.
- "HEADING" The heading in these General Conditions are solely for the purpose of xix) facilitating reference and shall not be deemed to be part thereof or be taken as instructions thereof or of the contract.
- xx) "MONTH" shall mean calendar month unless otherwise specified in the Tender.
- Day' or 'Days' unless herein otherwise expressly defined shall mean calendar day or days of twenty-four (24) hours each. A week shall mean continuous period of seven (7) days.
- xxii) "COMMISSIONING" shall mean the synchronization testing and achieving functional operation of the Equipment with associated system after all initial adjustments, trials, cleaning, re-assembly required at site if any, have been completed and Equipment with associated system is ready for taking into service.
- xxiii) "WRITING" shall include any manuscript type written or hand written or printed statement or electronically transmitted messages, under the signature or seal or transmittal of BHEL.
- xxiv) "TEMPORARY WORK" shall mean all temporary works for every kind required in or for the execution, completion, maintenance of the work.
- xxv) 'CONTRACT PRICE' or 'CONTRACT VALUE' shall mean the sum including applicable taxes mentioned in the LOI/LOA/Contract Agreement subject to such additions thereto or deductions there from as may be made under provisions hereinafter contained



- xxvi) "COMMENCEMENT DATE" or "START DATE" shall mean the commencement/start of work at Site as per terms defined in the Tender
- xxvii) "SHORT CLOSING" or "FORE CLOSING" of Contract shall mean the premature closing of Contract, for reasons not attributable to the contractor and mutually agreed between BHEL and the contractor
- xxviii) "TERMINATION" of Contract shall mean the pre mature closing of contract due to reasons as mentioned in the contract

2.2 LAW GOVERNING THE CONTRACT AND COURT JURISDICTION

The contract shall be governed by the Law for the time being in force in the Republic of India. The Civil Court having original Civil Jurisdiction at Bengaluru, shall alone have exclusive jurisdiction in regard to all claims in respect of the Contract. No other Civil Court shall have jurisdiction in case of any dispute, under this contract

2.3 ISSUE OF NOTICE

- 2.3.1 Service of notice on contractor: Any notice to be given to the Contractor under the terms of the contract shall be served by sending the same by Registered Post / Speed Post / FAX / Email to or leaving the same at the Contractor's last known address of the principal place of business (or in the event of the contractor being a company, to or at its Registered Office). In case of change of address, the notice shall be served at changed address as notified in writing by the Contractor to BHEL. Such posting or leaving of the notice shall be deemed to be good service of such notice and the time mentioned to the condition for doing any act after notice shall be reckoned from the date so mentioned in such notice.
- 2.3.2 Service of notice on BHEL Any notice to be given to BHEL in-charge under the terms of the Contract shall be served by sending the same by post or Email or leaving the same at BHEL address or changed address as notified in writing by BHEL to the Contractor.

2.4 USE OF LAND

No land belonging to BHEL or their Customer under temporary possession of BHEL shall be occupied by the contractor without written permission of BHEL.

2.4.1 STORES AND MATERIALS:

The contractor shall, at his own expense, supply all stores and materials required for the contract, other than those which may be provided by BHEL at the rates detailed therein subject to their availability at the place of issue indicated therein. All stores and materials to be supplied by the Contractor shall be of the best kind as described in the Specifications and the Contractor shall, if required by the Engineer –in- charge furnish him with proof to his satisfaction that the store and materials so comply with the specifications.



The contractor shall, at his own expense and without delay, supply samples of stores and materials proposed to be used in the execution of the work for the approval of the Engineerin charge, who may reject all stores and materials not corresponding either in quality or character to the approved samples.

In the case of stores provided by BHEL, the Contractor shall bear the cost of loading, transporting to site, unloading, storing under cover as required, assembling & jointing the several parts together as necessary and incorporating & fixing these stores & materials in the work, including all preparatory work of whatever description that may be required, and closing, preparing, loading and returning empty cases or containers to the place of issue without any extra charges.

Contractor is responsible for safe & secure storage of above material.

2.4.2 PATENT RIGHTS:

The contractor shall fully indemnify BHEL, or the agent, servant, or employee of BHEL, against any action, claim or proceeding relating to infringement or the use of any patent or design or any alleged patent or design rights, and shall pay any royalties which may be payable in respect of any article/ or part thereof included in the contract.

In the event of any claims being made or action brought against BHEL, or any agent, or servant or employee of BHEL., in respect of any of the matters aforesaid, the contractor shall not apply when such increment has taken place in complying with the specific directions issued by the BHEL but the contractor shall pay any royalties payable in respect of any such use.

2.4.3 WATER:

The contractor shall allow in his tender and provide at his cost all water required for the work or his employees on the work, together with all pipes and fittings or other means that may be necessary or required to ensure a proper and ample supply of water for all purpose connected with the work.

In the event of a provision existing in the Tender documents for supply of water on payment by BHEL, water will be supplied from the BHEL supply System, or other sources at any points fixed by the Site Engineer/Engineer-in-charge on the site of work. The contractor shall make necessary arrangement for lifting, pumping, carrying or conveying the water as required at his own cost. The levy of water charges to be borne by the Contractor in such case shall be specifically mentioned in the Tender documents.



2.4.4 TEMPORARY WORKSHOPS, STORES ETC:

The Contractor shall, during the progress of the work provide, erect and maintain at his own expense all necessary temporary workshops, store, offices, toilets etc., required for the proper and efficient execution of the work. The planning, siting and erection of these building shall have the approval of the Engineer-in-charge and the Contractor shall at all times keep them in a clean and sanitized condition to the entire satisfaction of the Engineer-in-charge.

On completion of the work all such temporary buildings shall be cleared and the site restored to its original state in a clean and tidy condition to the entire satisfaction of the Engineerincharge.

2.5 COMMENCEMENT OF WORK

- 2.5.1 Time is essence of contract and is specified in the tender document or in each individual work order.
- 2.5.2 The contractor shall commence the work within seven (07) days from LOI/work order or as intimated by BHEL and shall proceed with the same with due expedition without delay.
- 2.5.3 If the contractor fails to start the work within stipulated time as per LOI or as intimated by BHEL, then BHEL at its sole discretion will have the right to cancel the contract. The Earnest Money and/or Security Deposit with BHEL will stand forfeited without any further reference to him without prejudice to any and all of BHEL's other rights and remedies in this regard.
- 2.5.4 All the work shall be carried out under the direction and to the satisfaction of BHEL.

2.6 MEASUREMENT OF WORK AND MODE OF PAYMENT:

- 2.6.1 All payments due to the contractors shall be made by electronic mode only, unless otherwise found operationally difficult.
- 2.6.2 For progress running bill payments: The Contractor shall present detailed measurement sheets in triplicate, duly indicating all relevant details based on technical documents and connected drawings for work done during the month/period under various categories in line with terms of payment as per contract. The basis of arriving at the quantities, weights shall be relevant documents and drawings released by BHEL. These measurement sheets shall be prepared jointly with BHEL Engineers and signed by both the parties.
- 2.6.3 These measurement sheets will be checked by BHEL Engineer and quantities and percentage eligible for payment under various groups shall be decided by BHEL Engineer.



The abstract of quantities and percentage so arrived at based on the terms of payment shall be entered in Measurement Book and signed by both the parties.

- 2.6.4 Based on the above quantities, contractor shall prepare the bills in prescribed format and work out the financial value. These will be entered in Measurement Book and signed by both the parties. Payment shall be made by BHEL after effecting the recoveries due from the contractor.
- 2.6.5 All recoveries due from the contractor for the month/period shall be effected in full from the corresponding running bills unless specific approval from the competent authorities is obtained to the contrary.
- 2.6.6 Measurement shall be restricted to that portion of work for which it is required to ascertain the financial liability of BHEL under this contract.
- 2.6.7 The measurement shall be taken jointly by persons duly authorized on the part of BHEL and by the Contractor.
- 2.6.8 The Contractor shall bear the expenditure involved if any, in making the measurements and testing of materials to be used/used in the work. The contractor shall, without extra charges, provide all the assistance with appliances and other things necessary for measurement.
- 2.6.9 If at any time due to any reason whatsoever, it becomes necessary to re-measure the work done in full or in part, the expenses towards such re measurements shall be borne by the contractor unless such re measurements are warranted solely for reasons not attributable to contractor.
- 2.6.10 Passing of bills covered by such measurements does not amount to acceptance of the completion of the work measured. Any left out work has to be completed, if pointed out at a later date by BHEL.
- 2.6.11 Final measurement bill shall be prepared in the final bill format prescribed for the purpose based on the certificate issued by BHEL Engineer that entire works as stipulated in tender specification has been completed in all respects to the entire satisfaction of BHEL. Contractor shall give unqualified "No Claim" Certificate. All the tools and tackles loaned to him should be returned in satisfactory condition to BHEL. The abstract of final quantities and financial values shall also be entered in the Measurement Books and signed by both parties to the contract. The Final Bill shall be prepared and paid within a reasonable time after completion of work.



2.7 RIGHTS OF BHEL

BHEL reserves the following rights in respect of this contract during the original contract period or its extensions if any, as per the provisions of the contract, without entitling the contractor for any compensation.

- 2.7.1 To withdraw any portion of work and/or to restrict/alter quantum of work as indicated in the contract during the progress of work and get it done through other agencies to suit BHEL's commitment to its customer or in case BHEL decides to advance the date of completion due to other emergent reasons/ BHEL's obligation to its customer.
- 2.7.2 To terminate the contract or get any part of the work done through other agency or deploy BHEL's own/hired/otherwise arranged resources, at the risk and cost of the contractor after due notice of a period of two weeks by BHEL, in the event of: -
- i) Contractor's continued poor progress
- ii) Withdrawal from or abandonment of the work before completion of the work iii)
- Contractor's inability to progress the work for completion as stipulated in the contract
- iv) Poor quality of work
- v) Corrupt act of Contractor
- vi) Insolvency of the Contractor
- vii) Persistent disregard to the instructions of BHEL
- viii) Assignment, transfer, sub-letting of contract without BHEL's written permission
- ix) Non fulfilment of any contractual obligations / non-compliance of statutory requirements
- x) In the opinion of BHEL, the contractor is overloaded and is not in a position to execute the job as per required schedule
- 2.7.3 To meet the expenses including BHEL overheads of 35% & Liquidated damage/penalties arising out of "Risk & Cost" as explained above under SI.No. 2.7.2. BHEL shall recover the amount from any money due from Contractor, from any money due to the Contractor including Security Deposit or by forfeiting any T&P or material of the contractor under this contract or any other contract of BHEL or by any other means or any combination thereof
- 2.7.4 To terminate the contract or to restrict the quantum of work and pay for the portion of work executed in case BHEL's contract with their customer are terminated for any reason, as per mutual agreement.



- 2.7.5 To effect recovery from any amounts due to the contractor under this or any other contract or in any other form, the moneys BHEL is statutorily forced to pay to anybody, due to contractor's failure to fulfil any of his obligations. BHEL shall levy overheads of 35% on all such payments.
- 2.7.6 While every endeavour will be made by BHEL to this end, they cannot guarantee uninterrupted work due to conditions beyond their control. The Contractor will not be normally entitled for any compensation/extra payment on this account unless otherwise specified elsewhere in the contract.
- 2.7.7 In case the execution of works comes to a complete halt or reaches a stage wherein worthwhile works cannot be executed and there is no possibility of commencement of work for a period of not less than two months, due to reasons not attributable to the contractor and other than Force Majeure conditions, BHEL may consider permitting the contractor to de mobilize forthwith and re mobilize at an agreed future date. Cost of such demobilization/remobilization shall be mutually agreed. ORC (Over run Charges) in such cases shall not be applicable for the period between the period of demobilization and re mobilisation. The duration of contract/time extension shall accordingly get modified suitably. In case of any conflict, BHEL decision in this regard shall be final and binding on the contractor.
- 2.7.8 In the unforeseen event of inordinate delay in receipt of materials, drawings, fronts, etc, due to which inordinate discontinuity of work is anticipated, BHEL at its discretion may consider contractor's request to short close the contract, provided that the balance works are minor vis a vis the scope of work envisaged as per the contract. At the point of requesting for short closure, contractor shall establish that he has completed all works possible of completion and he is not able to proceed with the balance works due to constraints beyond his control. In such a case, the estimated value of the unexecuted portion of work as mutually agreed, shall however be reduced from the final contract value.

2.7.9 LIQUIDATED DAMAGES/PENALTY

COMPENSATION FOR DELAY:

If the contractor fails to maintain the required progress in terms of condition 2.10 or to complete the work and clear the site on or before the contracted or extended the period of completion, he shall, without prejudice to any other right or remedy of the BHEL on account of such breach, pay as agreed compensation an amount calculated as stipulated below

For unfinished anticipated value of work where finished portion is fit for use

Rate of compensation as follows:



- Completion period (as originally stipulated) not exceeding 6 months.@ 1 percent per week
- Completion period (as originally stipulated) Exceeding 6 months and not exceeding 2 years...@ 0.5 percent per week
- Completion period (as originally stipulated) exceeding 2 years...... @ 0.25 percent per week

Provided always that the total amount of compensation for delay to be paid under condition shall not exceed the under noted percentage of the anticipated contract value

- Completion period (as originally stipulated) not exceeding 6 months.@ 10 percent of anticipated value of work
- Completion period (as originally stipulated) Exceeding 6 months and not exceeding 2 years...@ 7.5 percent of anticipated value of work
- Completion period (as originally stipulated) Exceeding 2 years......@ 5 percent of anticipated value of work

The amount of compensation may be adjusted or set off against any sum payable to the Contractor under this or any other contract with the BHEL.

2.7.10 **POST TECHNICAL AUDIT OF WORK AND BILLS**: BHEL reserve the right to carry out a post-payment audit and technical examination of the work and final bill including all supporting vouchers, abstract etc., and to enforce recovery of any sums becoming due as a result thereof in the manner provided in the proceeding sub-paragraph's provided however that no such recovery shall be enforced after three years of passing the final bill

2.8 RESPONSIBILITIES OF THE CONTRACTOR IN RESPECT OF LOCAL LAWS, EMPLOYMENT OF WORKERS ETC.

The following are the responsibilities of the contractor in respect of observance of local laws, employment of personnel, payment of taxes etc. The subcontractor shall fully indemnify BHEL against any claims of whatsoever nature arising due to the failure of the contractor in discharging any of his responsibilities hereunder:

- 2.8.1 The contractor at all times during the continuance of this contract shall, in all his dealings with local labour for the time being employed on or in connection with the work, have due regard to all local festivals and religious and other customs.
- 2.8.2 The contractor shall comply with all applicable State and Central Laws, Statutory Rules, Maternity act, Regulations etc. such as contract labour(R&A) Act 1970, Minimum wage Act 19748, Payment of wages Act 1936, ESI Act 1948, EPF Act 1952, Employees' compensation Act 1923, Provision of Companies Act 1948 & rules thereof, The interstate Migrant Workmen 1979, The Karnataka Factories Rules 1969, Payment of Bonus Act 1965, Payment of Gratuity Act 1972. Child labour Prohibition act 1986, Karnataka Minimum Wage Act, Prevention of sexual harassment at work place Act 2013, Guidelines/notification related to Safai Karamchari Act , Equal Remuneration Act 1976, The company's instructions as



issued from time to time in regard to working hours, wages, leaves, holidays etc. for labour as may be enacted by the Government during the tenure of the Contract and having force or jurisdiction at Site. The Contractor shall also give to the local Governing Body, Police and other relevant Authorities all such notices as may be required by the Law.

The contractor shall produce the following registers and forms:

- Form XIII- Register of work men employed by contractor(Rule 75)
- Form XIV- Employment Card issued by contractor(Rule 76)
- Form XVI- Muster Roll (Rule 78(1) (a)(i))
- Form XVII- Register of Wages (Rule 78(1) (a)(i))
- Form XVIII- Register of wages cum Muster Roll (in case of weekly payment)
- Form XIX- Wage slip (Rule 78(b))
- Form XX- Register of deduction for damages Or Loss Rule 78(1) (a)(ii))
- Form XXI- Register of files Rule 78(1) (a)(ii))
- Form XXII- Register of Advance Rule 78(1) (a)(ii)) x Form XXIII- Register of Overtime Rule 78(1) (a)(iii))
- Form XXIV- Return to be sent by the contractor to the Licensing officer (Rule 82(1))
- 2.8.3 The contractor shall obtain independent License under the Contract Labour (Regulations and Abolition Act) as required from the concerned Authorities based on the certificate (Form-
- V) issued by the Principal Employer/Customer
- 2.8.4 The contractor shall pay all taxes, fees, license charges, deposits, duties, tolls, royalties, commission or other charges which may be levied on account of his operations in executing the contract.
- 2.8.5 While BHEL would pay the inspection fees and Registration fees of Boiler & explosive/Electrical Inspectorate, all other arrangements for site visits periodically by the Inspectorate to site, Inspection certificate etc. will have to be made by contractor. However, BHEL will not make any payment to the Inspectorate in connection with contractor's Welders/Electricians qualification tests etc.
- 2.8.6 Contractor shall be responsible for provision of Health and Sanitary arrangements (more particularly described in Contract Labour Regulation & Abolition Act), Safety precautions etc. as may be required for safe and satisfactory execution of contract.
- 2.8.7 The contractor shall be responsible for proper accommodation including adequate medical facilities for personnel employed by him.
- 2.8.8 The contractor shall be responsible for the proper behavior and observance of all regulations by the staff employed by him.



- 2.8.9 The contractor shall ensure that no damage is caused to any person/property of other parties working at site. If any such damage is caused, it is responsibility of the contractor to make good the losses or compensate for the same.
- 2.8.10 All the properties/equipment/components of BHEL/their Client loaned with or without deposit to the contractor in connection with the contract shall remain properties of BHEL/their Client.
- 2.8.11 The contractor shall use such properties for the purpose of execution of this contract. All such properties/equipment/components shall be deemed to be in good condition when received by the contractor unless he notifies within 48 hours to the contrary. The contractor shall return them in good condition as and when required by BHEL/their Client. In case of non-return, loss, damage, repairs etc, the cost thereof as may be fixed by BHEL Engineer will be recovered from the contractor
- 2.8.12 Any delay in completion of works/or non-achievement of periodical targets due to the reasons attributable to the contractor, the same may have to be compensated by the contractor either by increasing manpower and resources or by working extra hours and/or by working more than one shift. All these are to be carried out by the contractor at no extra cost.
- 2.8.13 The contractor shall arrange, coordinate his work in such a manner as to cause no hindrance to other agencies working in the same premises.
- 2.8.14 All safety rules and codes applied by the Client/BHEL at site shall be observed by the contractor without exception. The contractor shall be responsible for the safety of the equipment/material and works to be performed by him and shall maintain all light, fencing quards, slings etc. or other protection necessary for the purpose. Contractor shall also take such additional precautions as may be indicated from time to time by the Engineer with a view to prevent pilferage, accidents, fire hazards. Due precautions shall be taken against fire hazards and atmospheric conditions. Suitable number of Clerical staff, watch and ward, store keepers to take care of equipment/materials and construction tools and tackles shall be posted at site by the contractor till the completion of work under this contract. The contractor shall arrange for such safety devices as are necessary for such type of work and carry out the requisite site tests of handling equipment, lifting tools, tackles etc. as per prescribed standards and practices. Contractor has to ensure the implementation of Health, Safety and Environment (HSE) requirements as per directions given by BHEL/Customer. The contractor has to assist in HSE audit by BHEL/Customer and submit compliance Report. The contractor has to generate and submit record/reports as per HSE plan/activities as per instruction of BHEL/Customer. All tools, plant and equipment brought to the site shall become the property of BHEL and shall not be removed from the site without the prior written approval from BHEL. When the work is finally completed or the Contractor is determined for reasons other than the defaults of the contract, he shall forthwith remove from the site all tools, plants, equipment etc., (other than those as may have been provided by BHEL) and upon such removal, the same shall revert in, and become the property of the contractor.



- 2.8.15 The contractor will be directly responsible for payment of wages to his workmen on specified date of respective month declared as per applicable Labour Act. A pay roll sheet giving all the payments given to the workers and duly signed by the contractor's representative should be furnished to BHEL site for record purpose.
- 2.8.16 In case of any class of work for which there is no such specification as laid down in the contract, such work shall be carried out in accordance with the instructions and requirements of the Engineer.
- 2.8.17 Also, no idle charges will be admissible in the event of any stoppage caused in the work resulting in contractor's labour and Tools & Plants being rendered idle due to any reason at any time.
- 2.8.18 The contractor shall take all reasonable care to protect the materials and work till such time the plant/equipment has been taken over by BHEL or their Client whichever is earlier.
- 2.8.19 The contractor shall not stop the work or abandon the site for whatsoever reason of dispute, excepting force majeure conditions. All such problems/disputes shall be separately discussed and settled without affecting the progress of work. Such stoppage or abandonment shall be treated as breach of contract and dealt with accordingly
- 2.8.20 The contractor shall keep the area of work clean and shall remove the debris etc. while executing day-to-day work. Upon completion of work, the contractor shall remove from the vicinity of work, all scrap, packing materials, rubbish, unused and other materials and deposit them in places specified by the Engineer. The contractor will also demolish all the hutments, sheds, offices, etc. constructed and used by him and shall clean the debris. In the event of his failure to do so, the same will be arranged to be done by the Engineer and the expenses recovered from the contractor. If the work is executed in Factory premises, no hutment will be allowed.
- 2.8.21 The contractor shall execute the work in the most substantial and workman like manner in the stipulated time. Accuracy of work and timely execution shall be the essence of this contract. The contractor shall be responsible to ensure that the quality, assembly and workmanship conform to the dimensions and clearance given in the drawings and/ or as per the instructions of the Engineer.
- 2.8.22 The Contractor to note that some of BHEL's T&Ps/MMDs may not be insured. The Contractor will take necessary precautions and due care to protect the same while in his custody from any damage/ loss till the same is handed over back to BHEL. In case the damage / loss is due to carelessness/ negligence on the part of the contractor, the Contractor is liable to get them repair/replaced immediately and in case of his failure to do so within a reasonable time, BHEL will reserve the right to recover the loss from the contractor.



- 2.8.23 The contractor shall provide all watchmen necessary, for the protection of the site, the work, the materials, the tools, plant, equipment and anything else lying on the site during the progress of the work. He shall solely be responsible for and shall take all reasonable and proper steps for protecting, securing, lighting and watching all places on or about the work and the site which may be dangerous to any person whom so ever.
- 2.8.24 SITE DRAINAGE: All water that may accumulate on the site during the process of the work, or in trenches and excavations shall be removed to the entire satisfaction of the Engineering-charge and at Contractors expense.
- 2.8.25 INSPECTION OF THE WORK: BHEL Officers concerned with the Contract shall have power at any time to inspect and examine any part of the work and the contractor shall give such facilities as may be required to given for such inspection and examination.
- 2.8.26 In case the contractor is required to undertake any work outside the scope of this contract, the rates payable shall be those mutually agreed upon if the item rates are not mentioned in existing contract
 - i. For any item of wok required to be carried out after the contract has been awarded and which is not covered by Contractors Schedule but is covered by C.P.W.D. schedule of rates the rate payable for such a fresh item will be derived from updated C.P.W.D. schedule of rates by the method of proportion as follows:
 - ii. Rate as per estimated updated C.P.W.D DSR and loading tender excess (plus or minus) on pro-rata basis for nearest analogous items. For other items rate as per estimated C.P.W.D DSR and loading tender excess(plus or minus) iii. If rates are not available in C.P.W.D. DSR, deviated item rates will be derived from market rate with 15% profit and overheads.

2.9 PROGRESS MONITORING, MONTHLY/ WEEKLY REVIEW AND PERFORMANCE **EVALUATION**

- 2.9.1 A detailed plan/programme for completion of the contractual scope of work as per the time schedule given in the contract shall be jointly agreed between BHEL and Contractor, before commencement of work. The above programme shall be supported by month/ week wise deployment of resources viz Manpower, T&P, Consumables, etc. Progress will be reviewed periodically (Daily/Weekly/Monthly) vis a vis this jointly agreed programme. The Contractor shall submit periodical progress reports (Daily/Weekly/Monthly) and other reports/information including manpower, consumables, T&P mobilization etc as desired by BHEL.
- 2.9.2 Monthly/ weekly progress review between BHEL and Contractor shall be based on the agreed programme as above, availability of inputs/fronts etc, and constraints if any, as per prescribed formats. Manpower, T&P and consumable reports as per prescribed formats shall



be submitted by contractor every month. Release of RA Bills shall be contingent upon certification by BHEL Site Engineer of the availability of the above prescribed formats duly filled in and signed.

2.9.3 The burden of proof that the causes leading to any shortfall is not due to any reasons attributable to the contractor is on the contractor himself. The monthly progress review shall record shortfalls attributable to (i) Contractor, (ii) Force Majeure Conditions, and (iii) BHEL

2.10 TIME OF COMPLETION

- 2.10.1 Time is essence of the contract. The time schedule shall be as prescribed in the Contract. The time for completion shall be reckoned from the date of commencement of work at Site as certified by BHEL Engineers
- 2.10.2 The entire work shall be completed by the contractor within the time schedule or within such extended periods of time as may be allowed by BHEL under clause 2.11

2.11 EXTENSION OF TIME FOR COMPLETION

- 2.11.1 If the completion of work as detailed in the scope of work gets delayed beyond the contract period, the contractor shall request for an extension of the contract and BHEL at its discretion may extend the Contract.
- 2.11.2 Based on the monthly reviews jointly signed, the works balance at the end of original contract period less the backlog attributable to the contractor shall be quantified, and the number of months of 'Time extension' required for completion of the same shall be jointly worked out. Within this period of 'Time extension', the contractor is bound to complete the portion of backlog attributable to the contractor. Any further 'Time extension' or 'Time extensions' at the end of the previous extension shall be worked out similarly.
- 2.11.3 However if any 'Time extension' is granted to the contractor to facilitate continuation of work and completion of contract, due to backlog attributable to the contractor alone, then it shall be without prejudice to the rights of BHEL to impose penalty/LD for the delays attributable to the contractor, in addition to any other actions BHEL may wish to take at the risk and cost of contractor.
- 2.11.4 A joint programme shall be drawn for the balance amount of work to be completed during the period of 'Time Extension', along with matching resources (with weightages) to be deployed by the contractor as per specified format. Review of the programme and record of shortfall shall be done every month of the 'Time extension' period in the same manner as is done for the regular contract period.
- 2.11.5 During the period of 'Time extension', contractor shall maintain their resources as per mutually agreed program



2.11.6 At the end of total work completion as certified by BHEL Engineer, and upon analysis of the total delay, the portion of time extensions attributable to (i) Contractor, (ii) Force majeure conditions, and (iii) BHEL, shall be worked out and shall be considered to be exhausted in the same order. The total period of time extensions shall be the sum of (i), (ii) and (iii) above and shall be equal to period between the scheduled date of completion and the actual date of completion of contract. LD shall be imposed/levied for the portion of time extensions attributable to contractor and recoverable from the dues payable to the contractor.

2.12 OVERRUN COMPENSATION (THIS CLAUSE IS NOT APPLICABLE IN BHEL FACTORY & TOWNSHIP PREMISES)

- 2.12.1 Over Run Compensation (ORC) is payable by way of rate revisions for periods beyond original, contract period subject to the following terms and conditions.
- 2.12.2 Rates shall be increased by 10% for the first twelve months of one or more extensions beyond original contract period. For the next twelve months of further extensions if any, rates shall be increased as above by 10% over the previous twelve months, and similarly for each subsequent twelve months extension.
- 2.12.3 Should there be any 'Time extension' for reasons attributable only to the contractor, then the work shall be executed by the contractor at the rates applicable for the period the work was planned
- 2.12.4 Payment of ORC shall be regulated as follows:
- Contractor is entitled to Over Run Compensation (ORC) only for the portion of backlog i) attributable to BHEL.
- 50% of the compensation is allocated for deployment of resources agreed as per the ii) joint programme drawn vide 2.11.4. Payment shall however be based on the actual deployment of resources for the month as certified by BHEL, as per weightages assigned therein
- iii) 50% of the compensation, is allocated for achieving of planned progress agreed as per the joint programme drawn vide 2.11.4. Payment shall be on pro rata basis for actual achieved quantities
- Total Over Run Compensation shall be limited to 10% of the executed contract value iv) as certified in Final Bill. For this purpose, executed contract value excludes PVC, ORC, Supplementary/Additional Items and Extra Works done on Man-day rate basis
- 2.12.5 Contractor shall not be entitled for any Over Run Compensation (ORC) for the portion of backlog attributable to the contractor. Such works shall be executed at the rates applicable for the period the work was planned



2.13 **QUANTITY VARIATION**

2.13.1 The quoted rates shall remain firm irrespective of any variations in the individual quantities.

2.14 EXTRA WORKS

- 2.14.1 All rectifications/modifications, revamping, and reworks required for any reasons not attributable to the contractor, or needed due to any change in deviation from drawings and design of equipment, operation/maintenance requirements, mismatching, or due to damages in transit, storage and erection/commissioning, and other allied works which are not very specifically indicated in the drawings, but are found essential for satisfactory completion of the work, will be considered as extra works.
- 2.14.2 Extra works arising on account of the contractor's fault, irrespective of time consumed in rectification of the damage/loss, will have to be carried out by the contractor free of cost. Under such circumstances, any material and consumable required for this purpose will also have to be arranged by the contractor at his cost.
- 2.14.3 All the extra work should be carried out by a separately identifiable gang, without affecting routine activities. Daily log sheets in the pro-forma prescribed by BHEL should be maintained and shall be signed by the contractor's representative and BHEL engineer. No claim for extra work will be considered/entertained in the absence of the said supporting documents i.e. daily log sheets. Signing of log sheets by BHEL engineer does not necessarily mean the acceptance of such works as extra works.
- 2.14.4 BHEL retains the right to award or not to award any of the major repair/ rework/modification/rectification/fabrication works to the contractor, at their discretion without assigning any reason for the same
- 2.14.5 After eligibility of extra works is established and finally accepted by BHEL engineer/designer, payment will be released on competent authority's approval at the following rate.

MAN-HOUR RATE FOR ELIGIBLE EXTRA WORKS: Single composite average labour manhour rate, including overtime if any, supervision, use of tools and tackles and other site expenses and incidentals, consumables for carrying out any major rework/ repairs/ rectification/ modification/ fabrication as certified by site as may arise during the course of erection, testing, commissioning or extra works arising out of transit, storage and erection damages, payment, if found due will be as per applicable minimum wage act

2.14.6 The above composite labour man hour rate towards extra works shall remain firm and not subject to any variation during execution of the work. PVC will not be applicable for extra works. Rate revision, Over Run Charges/compensation etc will not be applicable due to extra works.



2.14.7 Extra Works for Civil Packages shall be regulated as follows

- i) Rates for Extra Works arising due to (1) non availability of BOQ (Rate Schedule), OR (2) change in Specifications of materials/works (3) rectification/modification/dismantling & reerecting etc due to no fault of Contractor, shall be in the order of the following:
- a) Item rates are to be derived from similar nature of items in the BOQ (Rate Schedule) with applicable escalation derived from All India Consumer Price Index for Whole Sale Commodities.
- As per applicable updated CPWD-DSR (or latest edition) with applicable escalation b) derived, Notification issued by the office of CPWD for 'Cost Index' in that Region where the project is being executed,
- Item rates are to be worked out on the basis of prevailing market rates mutually agreed between BHEL and Contractor, plus 15% towards Contractor's overheads and profit.
- ii) PVC and ORC will not applicable be for (i) above.

2.15 **SUPPLEMENTARY ITEMS**

2.15.1 For NON Civil Works

Supplementary items are items/works required for completion of entire work but not specified in the scope of work. Subject to certification of such items/works as supplementary items by BHEL Engineer, rates shall be derived on the basis of any one of the following on mutual agreement:

- i) Based on percentage breakup/rates indicated for similar/nearby items
- ii) In case (i) above does not exist, then BHEL/site may derive the percentage breakup/rates to suit the type of work

2.15.2 For Civil Works

- i) Rates for Supplementary Works/Additional Works arising out due to additions/alterations in the original scope of works as per contract subject to certification of BHEL Engineer shall be worked out as under:
- Item rates which are available in existing BOQ (Rate Schedule) shall be operated with applicable escalation derived from All India Consumer Price Index for Whole Sale Commodities
- Items of works which are not available in existing BOQ shall be operated as an 'Extra Works' and rate shall be derived as per clause no 2.14



- ii) Execution of Supplementary Works/Additional Works through the Contractor shall be at the sole discretion of BHEL, and shall be considered as part of executed contract value for the purpose of Quantity Variation as per clause 2.13
- BHEL Engineer's decision regarding fixing the rate as above is final and binding on iii) the contractor. iv) PVC and ORC will not be applicable for (i) above.

2.16 STRIKES & LOCKOUT

- 2.16.1 The contractor will be fully responsible for all disputes and other issues connected with his labour/employee. In the event of the contractor's labour/employee resorting to strike or the Contractor resorting to lockout and if the strike or lockout declared is not settled within a period of 15 days, BHEL shall have the right to get the work executed through any other agencies and the cost so incurred by BHEL along with Overhead charges of 35% shall be deducted from the Contractor's bills along with overhead of 35%
- 2.16.2 For all purposes whatsoever, the employees of the contractor shall not be deemed to be in the employment of BHEL

2.17 FORCE MAJEURE

The following shall amount to Force Majeure: -

- 2.17.1 Acts of God, act of any Government, War, Sabotage, Riots, Strike, Civil commotion, Police action, Revolution, Flood, Fire, Cyclones, Earth quake and Epidemic and other similar causes over which the contractor has no control.
- 2.17.2 If the contractor suffers delay in the due execution of the contractual obligation due to delays caused by force majeure as defined above, the agreed time of completion of the job covered by this contract or the obligations of the contractor shall be extended by a period of time equal to period of delay, provided that on the occurrence of any such contingency, the contractor immediately reports to BHEL in writing the causes of delay and the contractor shall not be eligible for any compensation.

2.18 ARBITRATION & RECONCILIATION

2.18.1 In case amicable settlement is not reached in the event of any dispute or difference arising out of the execution of the Contract or the respective rights and liabilities of the parties or in relation to interpretation of any provision by the Contractor in any manner touching upon the Contract, such dispute or difference shall (except as to any matters, the decision of which is specifically provided for therein) be referred to the sole arbitration of the arbitrator appointed by BHEL/In charge.

The award of the Arbitrator shall be binding upon the parties to the dispute Subject as aforesaid, the provisions of Arbitration and Reconciliation Act 1996 (India) or statutory



modifications or reenactments thereof and the rules made there under and for the time being in force shall apply to the arbitration proceedings under this clause. The venue of the arbitration shall be the place from which the contract is issued or such other place as the Arbitrator at his discretion may determine

2.18.2 In case of Contract with Public Sector Enterprise (PSE) or a Government Department, the following shall be applicable:

In the event of any dispute or difference relating to the interpretation and application of the provisions of the Contract, such dispute or difference shall be referred to by either party to the arbitration of one of the arbitrators in the department of public enterprises. The award of the arbitrator shall be binding upon the parties to the dispute, provided, however, any party aggrieved by such award may make further reference for setting aside or revision of the award to the Law Secretary, Department of Legal Affairs, Ministry of Law and Justice, Government of India. Upon such reference the dispute shall be decided by the Law Secretary or the Special Secretary or Additional Secretary when so authorized by the Law Secretary, whose decision shall bind the parties hereto finally and conclusively.

- 2.18.3 The cost of arbitration shall be borne equally by the parties.
- 2.18.4 Work under the contract shall be continued during the arbitration proceedings

2.19 **PAYMENTS**

Payments to Contractors are made in any one of the following forms

- 2.19.1 Running Account Bills (RA Bills)
- These are for interim payments when the contracts are in progress. The bills for such i) interim payments are to be prepared by Contractor in prescribed formats (RA Bill forms).
- ii) Payments shall be made according to the extent of work done as per measurements taken up to the end of the calendar month and in line with the terms of payments described in the Tender documents along with relevant statutory documents applicable for the work.
- iii) Recoveries on account of electricity, water, statutory deductions, etc are made as per terms of contract
- iv) Full rates for the work done shall be allowed only if the quantum of work has been done as per the specifications stipulated in the contract. If the work is not executed as per the stipulated specifications, BHEL may ask the contractor to re do the work according to the required specifications, without any extra cost. However, where this is not considered necessary 'OR' where the part work is done due to factors like non-availability of material to be supplied by BHEL 'OR' non availability of fronts 'OR' non availability of drawings, fraction payment against full rate, as is considered reasonable, may be allowed with due regard for



the work remaining to be done. BHEL decision in this regard will be final and binding on the contractor.

v) In order to facilitate part payment, BHEL Site Engineer at his discretion may further split the contracted rates/percentages to suit site conditions, cash flow requirements according to the progress of work

2.19.2 Final Bill

Final Bill' is used for final payment on closing of Running Account for works or for single payment after completion of works. 'Final Bill' shall be submitted as per prescribed format after completion of works as per scope and upon material reconciliation, along with the following.

- i) 'No Claim Certificate' by contractor
- Clearance certificates where ever applicable viz Clearance Certificates from Customer, various Statutory Authorities like Labour department, PF Authorities, Commercial Tax Department, etc.
- iii) Indemnity bond as per prescribed format BHEL shall settle the final bills after deducting all liabilities of Contractor to BHEL

2.20 PERFORMANCE GUARANTEE FOR WORKMANSHIP

- 2.20.1 Even though the work will be carried out under the supervision of BHEL Engineers the Contractor will be responsible for the quality of the workmanship and shall quarantee the work done for a period of as mentioned in the contract/NIT from the date of commencement of quarantee period as defined in Technical Conditions of Contract, for good workmanship and shall rectify free of cost all defects due to faulty erection detected during the guarantee period. In the event of the Contractor failing to repair the defective works within the time specified by the Engineer, BHEL may proceed to undertake the repairs of such defective works at the Contractor's risk and cost, without prejudice to any other rights and recover the same from the balance security deposit.
- 2.20.2 BHEL shall release the balance security deposit subject to the following
- i) Contractor has submitted 'Final Bill'
- ii) Guarantee period as per contract has expired
- iii) Contractor has furnished 'No Claim Certificate' in specified format
- iv) BHEL Site Engineer/Construction Manager has furnished the 'No Demand Certificate' in specified format



v) Contractor has carried out the works required to be carried out by him during the period of Guarantee and all expenses incurred by BHEL on carrying out such works is included for adjustment from the Guarantee money refundable.

2.21 CLOSING OF CONTRACTS

The Contract shall be considered completed and closed upon completion of all contractual obligations and settlement of Final Bill or completion of Guarantee period whichever is later. Upon closing of Contract, BHEL shall issue a completion certificate as per standard format, based on specific request of Contractor.

2.22 REVERSE AUCTION/PRICE BID OPENING:

- BHEL reserves the right to go for reverse auction at any point of time before opening of Price Bid.
- Bids with non-acceptance of reverse auction will be liable for rejection.
- Opening of Price Bid at discretion of BHEL.
- BHEL shall be at liberty to cancel the tender at any time, before ordering, without assigning any reason.

2.23 SUSPENSION OF BUSINESS DEALINGS

BHEL reserves the right to take action against Contractors who either fail to perform or Tenderers/Contractor who indulge in malpractices, by suspending business dealings with them in line with BHEL guidelines issued from time to time.

2.24 OTHER ISSUES

- 2.24.1 Value of Non judicial Stamp Paper for Bank Guarantees and for Contract Agreement shall be not less than Rs 200/- unless otherwise required under relevant statutes.
- 2.24.2 In case of any conflict between the General Conditions of Contract and Special Conditions of Contract, provisions contained in the Special Conditions of Contract shall prevail.
- 2.24.3 Unless otherwise specified in NIT, offers from consortium/JVs shall not be considered.
- 2.24.4 BHEL may not insist for signing of Contract Agreements in respect of low value and short time period contracts

Annexure-1

INTEGRITY PACT

Between

Bharat Heavy Electricals Ltd. (BHEL), a company registered under the Companies Act 1956 and having its registered office at "BHEL House", Siri Fort, New Delhi - 110049 (India) hereinafter referred to as "The Principal", which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the ONE PART

and
, (description of the party along with address), hereinafter referred to as "The Bidder/ Contractor" which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the OTHER PART
<u>Preamble</u>
The Principal intends to award, under laid-down organizational procedures, contract/s for
(hereinafter referred to as "Contract"). The Principal values full compliance with all relevant laws of the land, rules and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder(s)/ Contractor(s).

In order to achieve these goals, the Principal will appoint panel of Independent External Monitor(s) (IEMs), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1- Commitments of the Principal

- 1.1 The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles: -
- 1.1.1 No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
- 1.1.2 The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/ additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
- 1.1.3 The Principal will exclude from the process all known prejudiced persons.
 - 1.2 If the Principal obtains information on the conduct of any of its employees which is a penal offence under the Indian Penal Code 1860 and Prevention of Corruption Act 1988 or any other statutory penal enactment, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

Section 2 - Commitments of the Bidder(s)/ Contractor(s)

2.1 The Bidder(s)/ Contractor(s) commit himself to take all measures necessary to prevent corruption. The Bidder(s)/ Contractor(s) commits himself to observe the following principles during participation in the tender process and during the contract execution.

- 2.1.1 The Bidder(s)/ Contractor(s) will not, directly or through any other person or firm, offer, promise or give to the Principal or to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material, immaterial or any other benefit which he/ she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
- 2.1.2 The Bidder(s)/ Contractor(s) will not enter with other Bidder(s) into any illegal or undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
- 2.1.3 The Bidder(s)/ Contractor(s) will not commit any penal offence under the relevant Indian Penal Code (IPC) and Prevention of Corruption Act; further the Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- 2.1.4 Foreign Bidder(s)/ Contractor(s) shall disclose the name and address of agents and representatives in India and Indian Bidder(s)/ Contractor(s) to disclose their foreign principals or associates. The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
 - 2.2 The Bidder(s)/ Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
 - 2.3 The Bidder(s)/ Contractor(s) shall not approach the Courts while representing the matters to IEMs and shall await their decision in the matter.

Section 3 - Disqualification from tender process and exclusion from future contracts

If the Bidder(s)/ Contractor(s), before award or during execution has committed a transgression through a violation of Section 2 above, or acts in any other manner such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/ Contractor(s) from the tender process, terminate the contract, if already awarded, exclude from future business dealings and/ or take action as per the separate "Guidelines on Banning of Business dealings with Suppliers/ Contractors", framed by the Principal.

Section 4 - Compensation for Damages

- 4.1 If the Principal has disqualified the Bidder (s) from the tender process before award / order acceptance according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/ Bid Security.
- 4.2 If the Principal is entitled to terminate the Contract according to Section 3, or terminates the Contract in application of Section 3 above , the Bidder(s)/ Cotractor (s) transgression through a violation of Section 2 above shall be construed breach of contract and the Principal shall be-entitled to demand and recover from the Contractor an amount equal to 5% of the contract value or the amount equivalent to Security Deposit/ Performance Bank Guarantee , whichever is higher, as damages, in addition to and without prejudice to its right to demand and recover compensation for any other loss or damages specified elsewhere in the contract.

Section 5 - Previous Transgression

- 5.1 The Bidder declares that no previous transgressions occurred in the last 3 (three) years with any other company in any country conforming to the anti-corruption approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.
- 5.2 If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason or action can be taken as per the separate "Guidelines on Banning of Business dealings with Suppliers/ Contractors", framed by the Principal.

Section 6 - Equal treatment of all Bidder (s)/ Contractor (s) / Sub-contractor (s)

- 6.1 The Principal will enter into Integrity Pacts with identical conditions as this Integrity Pact with all Bidders and Contractors.
- In case of Sub-contracting, the Principal Contractor shall take the responsibility of the adoption of Integrity Pact by the Sub-contractor(s) and ensure that all Sub-contractors also sign the Integrity Pact.
- 6.3 The Principal will disqualify from the tender process all Bidders who do not sign this Integrity Pact or violate its provisions.

Section 7 - Criminal Charges against violating Bidders/ Contractors /Subcontractors

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office.

Section 8 -Independent External Monitor(s)

- 8.1 The Principal appoints competent and credible panel of Independent External Monitor (s) (IEMs) for this Integrity Pact. The task of the IEMs is to review independently and objectively, whether and to what extent the parties comply with the obligations under this Integrity Pact.
- 8.2 The IEMs are not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the CMD, BHEL.
- 8.3 The IEMs shall be provided access to all documents/ records pertaining to the Contract, for which a complaint or issue is raised before them as and when warranted. However, the documents/records/information having National Security implications and those documents which have been classified as Secret/Top Secret are not to be disclosed.
- 8.4 The Principal will provide to the IEMs sufficient information about all meetings among the parties related to the Contract provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the IEMs the option to participate in such meetings.

- 8.5 The advisory role of IEMs is envisaged as that of a friend, philosopher and guide. The advice of IEMs would not be legally binding and it is restricted to resolving issues raised by a Bidder regarding any aspect of the tender which allegedly restricts competition or bias towards some Bidders. At the same time, it must be understood that IEMs are not consultants to the Management. Their role is independent in nature and the advice once tendered would not be subject to review at the request of the organization.
- 8.6 For ensuring the desired transparency and objectivity in dealing with the complaints arising out of any tendering process or during execution of Contract, the matter should be examined by the full panel of IEMs jointly, who would look into the records, conduct an investigation, and submit their joint recommendations to the Management.
- 8.7 The IEMs would examine all complaints received by them and give their recommendations/ views to the CMD, BHEL at the earliest. They may also send their report directly to the CVO, in case of suspicion of serious irregularities requiring legal/ administrative action. Only in case of very serious issue having a specific, verifiable Vigilance angle, the matter should be reported directly to the Commission. IEMs will tender their advice on the complaints within 30 days.
- 8.8 The CMD, BHEL shall decide the compensation to be paid to the IEMs and its terms and conditions.
- 8.9 IEMs should examine the process integrity, they are not expected to concern themselves with fixing of responsibility of officers. Complaints alleging mala fide on the part of any officer of the Prinicpal should be looked into by the CVO of the Principal.
- 8.10 If the IEMs have reported to the CMD, BHEL, a substantiated suspicion of an offence under relevant Indian Penal Code / Prevention of Corruption Act, and the CMD, BHEL has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the IEMs may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
- 8.11 After award of work, the IEMs shall look into any issue relating to execution of Contract, if specifically raised before them. As an illustrative example, if a Contractor who has been awarded the Contract, during the execution of Contract, raises issue of delayed payment etc. before the IEMs, the same shall be examined by the panel of IEMs. Issues like warranty/ guarantee etc. shall be outside the purview of IEMs.
- 8.12 However, the IEMs may suggest systemic improvements to the management of the Principal, if considered necessary, to bring about transparency, equity and fairness in the system of procurement.
- 8.13 The word 'Monitor' would include both singular and plural.

Section 9 - Pact Duration

- 9.1 This Integrity Pact shall be operative from the date this Integrity Pact is signed by both the parties till the final completion of contract for successful Bidder, and for all other Bidders 6 months after the Contract has been awarded. Any violation of the same would entail disqualification of the bidders and exclusion from future business dealings.
- 9.2 If any claim is made/ lodged during currency of this Integrity Pact, the same shall be binding and continue to be valid despite the lapse of this Pact as specified above, unless it is discharged/ determined by the CMD, BHEL.

Section 10 - Other Provisions

- 10.1 This Integrity Pact is subject to Indian Laws and exclusive jurisdiction shall be of the competent Courts as indicated in the Tender or Contract, as the case may be.
- 10.2 Changes and supplements as well as termination notices need to be made in writing.
- 10.3 If the Bidder(s)/ Contractor(s) is a partnership or a consortium or a joint venture, this Integrity Pact shall be signed by all partners of the partnership or joint venture or all consortium members.
- 10.4 Should one or several provisions of this Integrity Pact turn out to be invalid, the remainder of this Integrity Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 10.5 Only those bidders / contractors who have entered into this Integrity Pact with the Principal would be competent to participate in the bidding. In other words, entering into this Integrity Pact would be a preliminary qualification.
- In the event of any dispute between the Principal and Bidder(s)/ Contractor(s) relating to the Contract, in case, both the parties are agreeable, they may try to settle dispute through Mediation before the panel of IEMs in a time bound manner. In case, the dispute remains unresolved even after mediation by the panel of IEMs, either party may take further action as the terms & conditions of the Contract. The fees/expenses on dispute resolution through mediation shall be shared by both the parties. Further, the mediation proceedings shall be confidential in nature and the parties shall keep confidential all matters relating to the mediation proceedings including any settlement agreement arrived at between the parties as outcome of mediation. Any views expressed, suggestions, admissions or proposals etc. made by either party in the course of mediation shall not be relied upon or introduced as evidence in any further arbitral or judicial proceedings, whether or not such proceedings relate to the dispute that is the subject of mediation proceedings. Neither of the parties shall present IEMs as witness in any Alternative Dispute Resolution or judicial proceedings in respect of the dispute that was subject of mediation.

For & On behalf of the Principal (Office Seal)	For & On behalf of the Bidder/ Contractor (Office Seal)
Place Date	
Witness:(Name & Address)	Witness: (Name & Address)