

TENDER ENQUIRY

Dt. 24/11/2023

Tender Ref. No: MP1/ARC/CIVILWORKS/23-24/CMSRU

Dear Sir,

Sealed Tenders in **Two Bid**, super scribing the Enquiry Number & Last date for receipt of Quotations on the envelope, are invited in two separate covers as 'Part I Techno Commercial' & 'Part II Price' for **MAINTAINANCE RATE CONTRACT ITEMS COMMON FOR ALL CIVIL WORKS IN BUILDINGS IN CMSRU & JTA/OFFICERS QUARTERS AT WADALA & MAZAGAON.**

Estimated Cost : Rs. 39,75,077.80 (including GST @ 18%)

1. The offers as above should reach the undersigned on or before the last date and time shown. Tenders should be addressed to "The General Manager (CMSRU), Cochin Shipyard Ltd-Mumbai Ship Repair Unit, Mumbai Port Trust, and Mumbai-400001".
2. Techno - Commercial offers can also be made by e-mail, with price bid duly Locked with password, before **11.00 hrs (IST) on 15 December 2023**, if delivery of sealed offers cannot be ensured at CSL on the due date.
3. The offer shall indicate payment terms and other terms and conditions.
4. Vendors are strongly advised to visit work site prior to quoting.
5. Quotation should be valid for a period of 90 days.
6. Quotation can be submitted by email as a password protected document (price part only) to the following email address.

vikas.kumar@cochinshipyard.in

loganathan.m@cochinshipyard.in

ijo.jacob@cochinshipyard.in

rahuldev.r@cochinshipyard.in

OR

In a sealed envelope addressed to "The General Manager (CMSRU), Cochin Shipyard Ltd Mumbai Ship Repair Unit, Mumbai Port Trust, Mumbai-400001".

Last Date & Time of Receipt of Tender: 15th December 2023 at 11:00 Hrs IST.

Last Date & Time of Clarification : 14th December 2023 at 17.00 Hrs IST.

Tender Opening date & time: 15th December 2023 at 11:30 Hrs IST.

NOTE: Amendment if any will be notified on CSL/Govt. Website. The bidders are requested to keep themselves informed of the development by visiting CSL website www.cochinshipyard.com and the CPP portal www.eprocure.gov.in regularly. Such amendments shall be binding upon them.

Enclosures attached in this tender: -

1. Special Instruction for Two Bid Systems
2. Scope of work
3. Price Bid
4. Rules & Regulations
5. Specific Terms & conditions
6. General Terms & conditions
7. Compliance matrix
8. H&S Contract Guidelines for Subcontract work inside CSL
9. Un Price Bid
10. Pre- Qualification Criteria
11. Pre-Contract Integrity Pact

Signed copy of following documents shall be submitted along with unpriced Price bid format clearly indicating quoted/not quoted against each job scope as per CSL P- bid format (Un priced bid no need to protect with password, if send as soft copy in E mail).

1. Scope of work(Encl:2)
2. Price Bid(Encl:3)
3. Rules & Regulations(Encl:4)
4. Specific Terms & conditions(Encl:5)
5. General Terms & conditions(Encl:6)
6. Compliance matrix(Encl:7)
7. Un Price Bid(Encl:9)
8. Proof as mentioned in Pre- Qualification Criteria(Encl:10)
9. Pre-Contract Integrity Pact(Encl:11)

Price bid duly signed and sealed by the authorized person need to be protected with password and shall be separately attached/enclosed in the mail. Offer submitted in single bid will not be considered.

In case of technical queries please contact Shri. PRAVEEN M K (JTA-Civil) (Mob No. 7978921774)

Yours faithfully,

Deputy General Manager (CMSRU)

CSL-MUMBAI SHIP REPAIR UNIT (CMSRU)

Mumbai

SPECIAL INSTRUCTION FOR TWO BID SYSTEMS

1. MODE OF SUBMISSION OF TENDERS

Tenders should be submitted in two separate sealed covers super scribed in capital letters as **PART-I "TECHNO-COMMERCIAL"** & **PART-II "PRICE"** indicating the tender number, due date and name & address of the tenderer.

2. TECHNO-COMMERCIAL PART SHOULD CONTAIN FOLLOWING DETAILS: -

- I. Drawings & Technical Literature, if any
- II. Other conditions, if any
- III. Signed and stamped copy of Scope of Work (Encl 2), Rules for engaging contractor's workmen in CSL-MSRU (Encl 4), Specific terms & Conditions (Encl 5), General Terms and Conditions (Encl 6) & Compliance Matrix (Encl 7), 8. Proof as mentioned in Pre- Qualification Criteria(Encl:10), Pre-Contract Integrity Pact.
- IV. Deviation list, if any
- V. **Un-Price bid without price clearly indicating quoted/ not quoted against each line item/ DL(Encl:8).**

3. PRICE PART SHOULD CONTAIN FOLLOWING DETAILS: -

- a. Price against each work.
- b. Taxes & duties as applicable shall be indicated.

4. CSL/CMSRU reserves the right to alter, modify the scope of supply at them discretion and consistent with the Navy Policy as applicable to the contract from time to time.

5. **The Techno-commercial part alone will be opened initially on the due date and time of tender. The price part will be opened only after evaluation of the Techno Commercial Part. Firms will be intimated the date of opening of the price part, whose Techno commercial bid is acceptable, in due course.**

6. The tenderer shall ensure that their Indian Agent is not representing any other suppliers for the same Tender. In other words, Indian Agents are not permitted to represent more than one firm for a particular Tender.

7. Deviations, if any, in the offer submitted from that of the tender enquiry in any form, should be clearly furnished in a separate document titled as **"List of Deviations"**.

8. Details of optional items, if any, should be indicated under separate heading in the technical bid and the respective price details should be given in the price bid.

10. After submission of quotation / price bid opening, no unsolicited correspondence will be entertained.

10. Clarifications, either technical or commercial, should be submitted to points specially asked for only. The opportunity so given should not be used for correcting/changing amending the data/conditions already submitted with the tender.
11. Price should be quoted separately for each item. Combining of figures against more than one item and ambiguous clauses will lead to rejection of the bid.
12. Offers should be clear and unambiguous. Incomplete/ambiguous offers are likely to be rejected.
13. The bidder shall submit a signed & sealed copy of the tender document including Encl 2, 4, 5, 6 ,7, 8, 9,10 & 11 along with their bid as token of acceptance of terms & Conditions.
14. An Integrity Pact as per CSL/CMSRU format is to be signed and submitted later (if necessary).
15. The quantity projected in the scope of work is estimated. There may be upward/downward variations in actual quantity.

General Manager (Ship Repair Materials)

SCOPE OF WORK			
MP1/ARC/CIVILWORKS/23-24/CMSRU		Encl:2	
<u>Maintenance rate contract for items common for all Civil works in buildings in CSL-CMSRU & JTA/Officers quarters at Wadala & Mazgaon for the year 2023-2024</u>			
Sl No	Description of work	Qty	UoM
<u>EARTH WORK</u>			
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil ,backfilling the same soil or disposal of surplus excavated soil as directed.Rate is inclusive of demolishing bituminous surface/ concrete/ rubble/ solingstone etc if any.complete.	50.00	m ³
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	30.00	m ³
3	Supplying and Filling inside basement with local good earth (including royalty) and consolidating in layers not exceeding 150mm thick each, in line and level including watering, ramming consolidating and dressing, cost and conveyance of all materials, labour, other incidentals etc complete.	20.00	m ³
4	Clearing site including uprooting of vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level, removal of rubbish and disposal within CMSRU premises as per direction of Engineer-in-Charge including all labour, other incidentals, hire for tools and plants etc. complete.	500.00	m ²
5	Surface dressing of the ground in all kinds of soil including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish and debris within a lead of 3km including all labour, other incidentals etc. complete.	500.00	m ²
6	Supplying,spreading and consolidating stone dust in layers not exceeding 150mm thick each in line and level including cost and conveyance of all materials,labour,other incidentals etc. complete.	30.00	m ³
<u>CONCRETE</u>			
7	Providing and laying plain cement concrete 1:4:8 using 40mm down graded IS nominal size hard broken metal including cost and conveyance of all materials,labour for mixing, laying, consolidating curing as per IS.456 etc.complete but excluding cost of cement and cost of formwork.	30.00	m ³
8	Providing Form work,Centering and shuttering including strutting, propping using shuttering sheet,supporting beams, supporting jacks,wooden planks and other incidentals etc. including removal of formwork after completion of work and clearing all materials and cost and conveyance of all materials labour etc	300.00	m ²
9	Providing and laying reinforced cement concrete 1:2:4 using 20mm down graded broken granite metal in ground floor upto 5m height including cost and conveyance of all materials, labour for mixing, laying, consolidating, curing,cost of dewatering etc.complete but excluding cost of cement,cost of formwork and cost of reinforcement.	50.00	m ³

10	Providing and laying reinforced cement concrete 1:11/2:3 using 20mm down graded broken granite metal for columns , beams and slabs including cost and conveyance of all materials, labour for mixing, laying, consolidating, curing, cost of dewatering etc.complete but excluding cost of cement, cost of formwork and cost of reinforcement. (formwork and reinforcement which will be measured separately).		
a.	All work upto plinth level	50.00	m ³
b.	Above plinth level up to fourth floor level	10.00	m ³
11	Reinforcement for RCC work including cost and conveyance of all materials, labour for, uncoiling, straightening, cutting, bending, laying & tying with 22G binding wire etc.complete but excluding cost of steel (mild steel or tor steel) but including cost of binding wire.	100.00	Qtl
12	Pressure grouting in Concrete/Masonry area etc using modified cement slurry added with expansive additive of approved brands like SIKA, FOSROC, CHRYSO, etc after fixing up of 12mm dia PVC nipple etc at points as directed by the engineer- in- charge .The ratio of propotioning chemical to cement shall be as per manufactures recomendation. The rate shall include the cost and conveyance of all materials, hire charges for pressure gun, all labours and material excluding the cost of cement. (The payment shall be made on the basis of actual weight of approved grout injected.)	15.00	kg
<u>BRICK/BLOCK/STONE WORK</u>			
13	Brick work with common burnt clay machine moulded modular bricks of class designation 12.5 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand).		
a.	Rate for Foundation and basement	30.00	m ³
b.	For super structure	15.00	m ³
14	Brick work in CM 1:4 for half brick wall using class designation 7.5 for superstructure including cost and conveyance of all materials, labour, other incidentals etc complete, excluding cost of cement. CPWD 6.13.2		
a.	Up to second floor level	75.00	m ²
15	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) & pointing with CM 1:3 including cost and conveyance of all materials, labour, other incidentals etc complete, excluding cost of cement upto plinth level		
a.	For foundation and basement	5.00	m ³
16	Providing and laying factory made Precast concrete solid blocks of 200 mm thickness of grade M10 from approved manufacturer in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand) for all leads and lifts including cost and conveyance of all materials, labour, other incidentals like scaffolding, curing etc complete, excluding cost of cement. cement.		
a.	Upto plingth level	30.00	m ³
b.	Upto 5th floor	5.00	m ³
17	Providing and laying half block masonry with factory made Precast concrete solid blocks of 100 mm thickness of grade M10 waste from approved manufacturer in foundation and plinth in: cement mortar 1:4(1 cement : 4 coarse sand) for all leads and lifts including cost and conveyance of all materials, labour, other incidentals like scaffolding, curing etc complete, excluding cost of cement.		

a.	Upto plinth level	15.00	m ²
b.	Upto 5th floor	5.00	m ²
DOORS/WINDOWS/VENTILATORS			
18	Supplying and fixing/replacing Marine plywood to the doors/partitions/floors etc including cost and conveyance of all materials, labour charges, all incidentals etc. Complete.		
a.	12mm	5.00	m ²
19	Providing and fixing/replacing mosquito proof nets made of the following materials to the door/window/ventilator frames already fixed using teak wood with beading screws, nails etc. including cost and conveyance of all materials labour etc. complete(Planed and framed work if required for openable shutters will be paid separately. Fittings will be paid separately)		
a.	Stainless steel	2.00	m ²
20	Providing and replacing/ fixing stainless steel/brass fixtures to doors /windows / ventilators/ partitions with necessary screws ,including cost and conveyance of all materials labour etc. complete		
a.	75mm butt hinges (Stainless steel)	4.00	nos
b.	100mm butt hinges (Stainless steel)	4.00	nos
c.	125mm butt hinges (Stainless steel)	4.00	nos
d.	100mm barrel tower bolt(Brass)	4.00	nos
e.	150mm barrel tower bolt(Brass)	4.00	nos
f.	150mm aldrop(Stainless steel)	4.00	nos
g.	200mm aldrop(Stainless steel)	4.00	nos
h.	100mm door handles (Aluminium powder coated)	4.00	nos
i.	Door stopper (Stainless steel)	4.00	nos
j.	100 mm hooks and eyes (Stainless steel)	4.00	nos
k.	150mm hooks and eyes(Brass)	4.00	nos
21	Supplying and fixing/replacing approved quality Indian make Aluminium section lock for doors. including cost and conveyance of all materials,labour and other incidentals etc. complete.	2.00	nos
22	Supplying and fixing/replacing broken glass panes for doors, windows, ventilators etc including cost and conveyance of all materials and other incidentals etc. complete. (Rate includes cost of Neoprene/EPDM rubber gasketwooden beading, putty, clips etc of approved quality wherever required)		
a.	4mm plain glass	1.00	m ²
b.	5mm plain glass	1.00	m ²
23	Suppling and fixing following plain glass with edge rounded for table top.		
a.	8mm thk plain glass	1.00	m ²
24	Supplying and fixing 30 mm thick Glass Fibre Reinforced Plastic (FRP) panelled door shutter of required colour and approved brand and manufacture, made with fire - retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate for forming hollow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places for fixing of fittings, cast monolithically with 5 mm thick FRP laminate for panels conforming to IS: 14856, with approved accesories such as 100mm SS hinges 4 nos., 100mm Anodised aluminium tower bolt 1no., 150mm aluminium aldrop 1no., Chromium plated Brass mortice latch and lock 100x65 mm with 6 levers and a pair of brass lever handles and necessary screws including cost of labour and all other incidentals etc. complete. .		
a.	With out Frame	5.00	m ²
b.	With Frame of section 90 x 45 mm	5.00	m ²
25	Supplying and fixing / replacing M.S weld mesh 50mmx50mmx4mm using necessary screws, wooden beeding ,painting with one coat of iron primer etc. complete.	10.00	m ²

26	Supplying and fixing, 22G aluminium sheets to the wood planks, shelf, doors, windows,walls & roofs etc.including cost and conveyance of all materials labour charges, all wastages, other sundries etc. complete.	10.00	m ²
FLOORING			
27	Providing and laying plain cement concrete 1:11/2:3 using 6mm/12mm down graded IS nominal size hard broken aggregate after cleaning the surface and applying necessary bonding agents like Nitobond SBR or equivalent @1.3litre/m3 for proper bonding between old and new concrete including cost and conveyance of all materials, formwork, labour for mixing, laying, consolidating curing etc.complete but excluding cost of cement.	2.00	m ³
28	Providing and laying plain cement concrete 1:11/2:3 using 6mm/12mm down graded IS nominal size hard broken metal after cleaning the surface including cost and conveyance of all materials, formwork, labour for mixing, laying, consolidating curing etc.complete but excluding cost of cement.	2.00	m ³
29	Supplying and laying non-slippery ceramic flooring tiles of approved brand ,quality and colour after clearing the floor properly by pasting with chemical adhesive Cerabond and equivalent and pointing the joints with coloured cement to match with the tiles in line and level including cost and conveyance of all materials, labour other incidentals etc. complete. (Basic rate of tile Rs. 410/m2 excluding GST)	10.00	m ²
30	Supplying and laying ceramic glazed tiles of approvedbrand ,quality and colour for dadoing by pasting with chemical adhesive Cerabond /equivalent and pointing the joints with coloured cement to match with the tiles in line and level including cleaning the existing surface properly, cost and conveyance of all materials, labour other incidentals etc. complete (Basic rate of tile Coloured Tiles Rs. 420/m2 Excl. GST)		
(a)	(450mm x 300mm)	10.00	m ²
31	Supplying and laying non-slippery/anti-skid ceramic flooring tiles of approved brand ,quality and colour set in CM 1:4 20mm thick and Jointing with grey cement slurry @ 3.3 kg/sqm for the proper binding of the tiles to line and level, pointing the joints with coloured cement to match with the tiles including cost and conveyance of all materials, labour other incidentals (size 300mm x 300mm), excluding cost of cement.(Basic rate of tile Rs.410/m2 Excl.GST)etc. complete	10.00	m ²
32	Supplying and laying ceramic glazed tiles of approved brand ,quality and colour for dadoing by pasting with Cement and pointing the joints with coloured cement to match with the tiles in line and level including cleaning the existing surface properly, cost and conveyance of all materials, labour other incidentals etc. quantity of cement shall be measured in relevant item. complete (Basic rate of tile Coloured Tiles Rs.420/m2 Excl.GST)	10.00	m ²
33	Supplying and laying ceramic glazed tiles of approved brand ,quality and colour for dadoing set in CM 1:3 12mm thick and jointing with grey cement slurry @3.3kg per sqm for the proper binding of the tiles to line and level pointing the joints with coloured cement to match with the tiles including cost and conveyance of all materials, labour other incidentals etc. complete, excluding cost of cement.(Basic rate of tile 420/m2 Excl. GST) (size of 450mm x 300mm)	10.00	m ²
34	Supplying and laying approved type and colour Vitrified flooring Tiles approved brand , set in CM 1:4 20mm thick and jointing with grey cement slurry @ 3.3 kg/ sqm for the proper binding of the tiles to line and level, pointing the joints with coloured cement to match with the tiles including cost and conveyance of all materials, labour other incidentals etc. complete, excluding cost of cement.		
a.	600x600mm (Basic rate of tile per Sq mtr Rs.`660.0 Excl.GST)	10.00	m ²

a.	800x800mm (Basic rate of tile per Sq mtr Rs.`850.0 Excl.GST)	10.00	m ²
35	Supplying and laying approved brand ,quality Vitrified flooring Tiles of size not less than 600x600mm,by pasting with chemical adhesive Cerabond /equivalent and pointing the joints with coloured cement to match with the tiles in line and level including cleaning the existing surface properly, including cost and conveyance of all materials, labour other incidentals etc. complete,		
a.	600x600mm (Basic rate of tile per Sq mtr Rs.`660.0 Excl.GST)	20.00	m ²
a.	800x800mm (Basic rate of tile per Sq mtr Rs.`850.0 Excl.GST)	20.00	m ²
36	Supplying and laying approved brand ,quality and colour Vitrified pavement Tiles(300mm x 300mm) , set in CM 1:3 20mm thick and jointing with grey cement slurry @ 3.3 kg/ sqm for the proper binding of the tiles to line and level, pointing the joints with coloured cement to match with the tiles including cost and conveyance of all materials, labour other incidentals etc. complete, excluding cost of cement.(Basic rate of tile Coloured Tiles Rs. 350/m2 Excl.GST)	10.00	m ²
37	Dismantling &Relaying floor tiles work in all floors of the building set in CM 1:4 20mm thick and jointing with grey cement slurry @ 3.3 kg/ sqm for the proper binding of the tiles to line and level, pointing the joints with coloured cement to match with the tiles including cost and conveyance of all materials, labour other incidentals etc. complete, excluding cost of cement.	20.00	m ²
38	Dismantling & Relaying floor tiles work in all floors of the building by pasting with chemical adhesive Cerabond /equivalent and pointing the joints with coloured cement to match with the tiles in line and level including cleaning the existing surface properly,including cost and conveyance of all materials, labour other incidentals etc. complete,	10.00	m ²
39	Supplying and laying Ferrocon/ Scorpio /equivalent precast cement concrete tiles of approved quality and colour set in CM 1:4 20mm thick and cement adding necessary cement grout for the proper binding of the tiles to line and level pointing the joints with coloured cement to match with the tiles including rubbing and cleaning including cost and conveyance of all materials, labour other incidentals etc. complete, excluding cost of cement.	10.00	m ²
40	Supplying and laying polished 18mm thick Granite slab in required design and patterns with smoothly polished upper edges in semi circular shape, set in CM 1:3, 20mm thick plastering laid and jointed with cement slurry and pointing with pointing powder pigment of matching shade including rubbing, curing and polishing etc in line and level including cost of all materials, conveyance, labour, other incidentals etc complete, excluding the cost of cement. (Basic rate of Granite is Rs.2500/m2)	10.00	m ²
41	Supplying and laying marble slab of approved quality and colour of 18 mm or nearest available as per sample approved by EIC, thickness laid in CM 1:3, 15 mm thick with necessary cement grout for proper binding of slab including cost of marble slab, making the edge round, rubbing and polishing and conveyance of all materials, labour, other incidentals etc complete excluding the cost of cement.(Basic Rate 1150/m2)	2.00	m ²
42	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand over compacted soil , compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in Charge	10.00	m ²

ROOFING			
43	Providing and fixing/replacing on roofing/cladding with reinforced by organic fibres and/or inorganic synthetic fibres cement 6 mm thick corrugated sheets (as per IS: 14871) roofing up to any pitch and fixing with polymer coated J, or L hooks, bolts and nuts 8 mm dia. G.I. plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete (excluding the cost of purlins, rafters and trusses), including cutting sheets to size and shape wherever required.	10.00	m ²
44	Providing and fixing/replacing on roofing/cladding at all heights, levels and locations Aluminium profile industrial troughed sheet of Alloy 31500/31000/40800, conforming to IS 1254, IS 737, IS 2676. The sheet shall be fixed using self drilling/self tapping GI screws of size 5.5x65 mm with EPDM seal complete upto required pitch in horizontal, vertical or curved surfaces i/c cutting to size and shape where required as per specifications and direction of Engineer-in-Charge. The rate shall be inclusive of all screws, seal, ridge, labour, scaffolding, machinery for fixing and approved sealant where required etc. but excluding the cost of purlins, rafters and trusses.		
a.	0.71 mm thick, the profile detail width 1044/920 mm, cover width 1000/875 mm.	15.00	m ²
b.	0.56 mm thick, the profile detail width 1044/920 mm, cover width 1000/875 mm.	15.00	m ²
c.	0.46 mm thick, the profile detail width 1044/920 mm, cover width 1000/875 mm.	10.00	m ²
FINISHING			
45	Providing, mixing and applying bonding coat of approved adhesive on chipped portion of RCC as per specifications and direction of Engineer-In-charge complete in all respect. SBR Polymer (@10% of cement weight) modified cementitious bond coat @ 2.2 kg cement per sqm of surface area mixed with specified proportion of approved polymer	2.00	m ²
46	Providing, mixing and applying SBR polymer (of approved make) modified Cement mortar in proportion of 1:4 (1 cement: 4 graded coarse sand with polymer minimum 2% by wt. of cement used) as per specifications and directions of Engineer-in-charge. Note: Measurement and payment: The pre-measurement of thickness shall be done just after the surface preparation is completed and Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding / tapping with a blunt metal instrument and/or the 75mm size cube crushing strength at the end of 28 days to be not less than 30 N/Sqmm2).	2.00	m ²
47	Providing, mixing and applying SBR polymer (of approved make @ minimum 2% by wt. of cement used) modified plain/reinforced cement concrete for structural members having minimum characteristic compressive strength [with ordinary portland cement, coarse sand and graded stone aggregate of 10mm maximum size in proportion as per design criteria] with specified average thickness. Note: Rates shall be for finished surface area of concrete and shall include the cost of labour, concrete and appropriate approved Super-Plasticiser for rendering concrete as flowable and SBR polymer but shall exclude cost of cement, reinforcement, bond coat, Shear Keys, centering and shuttering, strutting, propping etc (Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding/tapping with a blunt metal instrument)	1.00	m ³
48	Cleaning the RCC/ weather proofing surface (including rain water pipes/ down water pipes) by removing all wild growths and disposing the debris within initial lead of 150m etc. complete (where actual area is not possible to measure, labour will be paid as per the relevant item.)	50.00	m ²
49	Plastering with CM floated hard and trowelled smooth including cost and conveyance of all materials, labour, curing including scaffolding etc. complete as directed by the Engineer-in-charge but excluding cost of cement.		

a.	1:4, 12mm thk.(1cement : 4Fine sand)	50.00	m ²
b.	1:3, 20mm thk.(1cement : 3Fine sand)	10.00	m ²
50	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	50.00	m ²
51	Providing Chicken mesh and clamping over the concrete with sufficient overlapping including cost and conveyance of all materials, labour, all other incidentals etc. complete	5.00	m ²
52	Painting with primer of approved quality and shade after rubbing and cleaning the surface including cost and conveyance of all materials,labour, scaffolding other incidentals, curing (wherever required) etc.complete.		
(a)	One coat cement primer on plastered surface	50.00	m ²
(b)	One coat zinc chromite primer	30.00	m ²
(c)	One coat zinc chromite primer	1.00	MT
(b)	One coat wood primer	10.00	m ²
53	Painting with ready mixed interior quality plastic emulsion paint of approved quality and colour after rubbing and cleaning the surface using wire brush, sand paper etc. wherever required including cost and conveyance of all materials, labour, scaffolding other incidentals etc. complete.		
(a)	One or more coats on old work	50.00	m ²
54	Painting with exterior quality Acrylic emulsion paint of premium quality and colour after rubbing and cleaning the surface using wire brush,sand paper etc. including cost and conveyance of all materials labour, scaffolding other incidentals etc. complete.		
(a)	Two or more coats on old surface (@1.67ltr/10sqm)	50.00	m ²
(b)	One or more coats on old surface(@.90ltr/10sqm)	20.00	m ²
55	Painting with synthetic enamel paint of approved quality and colour after rubbing and cleaning the surface using wire brush, sand paper etc. wherever required including cost and conveyance of all materials, labour,scaffolding other incidentals etc. complete.		
(a)	Two or more coats on new surface	30.00	m ²
(b)	One or more coat on old surface	25.00	m ²
56	White cement washing after cleaning the surface including cost and conveyance of all materials, labour, other incidentals etc complete.		
a.	One coat (for old/new surface)	50.00	m ²
57	Washing and cleaning surface of all types of buildings such as Industrial / office/residential/ compound wall etc by washing with water using hoses, brushes ,brooms etc at all heights including all labour removing off all dirt, wild growth etc disposing the debris within a lead of 150m etc complete.	50.00	m ²
58	Supplying & replacing White metal perforated Aluminium ceilings of size 600x600 Tegular edged to the existing aluminum frame work in all floors of the building at places wherever required including and conveyance of all materials, labour charges, scaffolding and other sundries incidentals etc complete.	3.00	m ²

STRUCTURAL STEEL WORK			
59	Fabrication & erection of Structural steel work , using Tees, angles, channels, plates, Tubes & Pipes etc. at all heights, fixed with or without connecting plate, including cutting, bending/straightening, welding/ bolting, fabrication, erecting in position, aligning the erected structure, cost of all accessories, hire for tools and plants and applying a priming coat with zinc chromate primer after mechanical buffing, etc complete. all as directed by the Engineer-in-charge.(all miscellaneous items made of steel shall be measured in the same item) complete.		
a.	Using Steel procured by the contractor	1,000.00	kg
b.	Using departmental steel	1,000.00	kg
60	Supplying& fixing follwing dia approved brand anchor bolts after drilling suitable holes in various depth as per the requirements, placing the bolt to correct line and level. Rate quoted should be inclusive of hire charges of drilling machine, labour, etc complete all as directed by the Engineer-in-charge.		
a.	M12x145 mm size	50.00	nos
b.	M16x137 mm size	20.00	nos
ALUMINIUM WORK			
61	Labour for servicing and repairs to glazed aluminium doors/windows, including replacing parts such as tower bolt, hinges,sliding window lock, rubber beading etc. complete as directed by the Engineer- in - charge. (Cost of parts will be paid separately)	3.00	m ²
62	Providing and fixing in position openable type mosquito proof windows/ doors or exhaust openings using powder coated Aluminium frames of approved quality and shade using 25 x 25 x 1.5mm size or nearest available sections and stainless steel net, EPDM beading,locking arrangement, screws, nails etc including cost and conveyance of all materials,all labour etc.complete as directed by the Engineer in charge.	3.00	m ²
63	Providing and fixing in position half glazed partition using 63.5x38.10x2mm thk.or nearest available size powder coated aluminium rectangular sections of approved quality and shade panelling with 8 mm thk.by prelaminated particle board and 5mm thk plain glass fixed with necessary EPDM beading including cost and conveyance of all materials,labour etc.complete.	6.00	m ²
64	Providing fixing/replacing good quality EPDM beading 25x32mm to door/window to make air tight by fixing it using suitable quality binding material including all cost and conveyance, labour etc. complete	4.00	m
65	Supplying and pasting sun control film to the shutter of glazed doors/windows/partitions after cutting to the required size including cost and conveyance of all materials, labour other sundries etc. complete all as directed by the Engineer- in- charge.		
a)	Check/ Strips/ frosted	20.00	m ²
DISMANTLING/DEMOLISHING			
66	Dismantling, clearing away and carefully stacking materials useful for reuse for any thickness of wall of brick, laterite or rubble in cement mortar including disposal of debris within as per directed by EIC etc. complete.	20.00	m ³
67	Dismantling and removing doors/windows with or without ventilators including removal of shutters, hinges, holdfasts and all other fittings and stacking materials as per directed by EIC etc complete.	2.00	nos

68	Demolishing PCC/RCC work manually/ by mechanical means including separately removing and stacking the available reinforcement and clearing away the debris as per directed by EIC etc. complete.	5.00	m ³
69	Demolishing and removing cement plaster of any thickness and stacks of cleaned materials available/disposal of debris as per directed by EIC etc. complete.	5.00	m ²
70	Dismantling and removing tiles set in cement mortar including cleaning and stacking, serviceable materials and removing the debris as per directed by EIC etc. complete.	20.00	m ²
71	Dismantling,removing and lowering wooden frame work ,planked sheeting , ceiling planks, AC/GI sheets for roofing, cladding, ceiling, wooden partition stacking serviceable materials & removing the unserviceable material as per directed by EIC etc. complete.	2.00	m ²
72	Dismantling A.C./G.I. corrugated sheets of roofing/cladding up to height of 5metres including conveying and stacking the dismantled materials at the places pointed out by the Engineer-in-charge.	3.00	m ²
<u>MAN POWER SUPPLY</u>			
73	Carrying out miscellaneous works by arranging various categories of labour as per the direction of the Engineer-in-charge.		
a.	Man(Unskilled)	300.00	Hrs
b.	Semi skilled	50.00	Hrs
c.	Mason, Carpenter,welder,Plumber, Painter,aluminium fabricator(Skilled)	300.00	Hrs
<u>SUPPLY AND STAKING</u>			
74	Supplying and stacking at site 20mm hard granite broken stone in standard stack including cost and conveyance of all materials,labour other incidentals etc. complete for pre-measurement.	1.00	m ³
75	Supplying and stacking at site 12mm/6mm hard granite broken stone in standard stack including cost and conveyance of all materials,labour other incidentals etc. complete for pre-measurement.	1.00	m ³
76	Supplying and stacking at site good quality crusher sand in standard stack including cost and conveyance of all materials,labour other incidentals etc. complete for pre-measurement.	1.00	m ³
77	Supplying and stacking at site OPC/PPC/PSC conforming to relevant IS.	15.00	T
78	Supplying and stacking at site TOR steel reinforcement bars of different diameters conforming to relevant IS1786 .	5.00	T
<u>WATER SUPPLY/SANITARY/SEWAGE</u>			
79	Supplying and fixing glazed earthenware European type water closet of white colours with 8 mm dia C.P. Brass/ S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate for European type W.C.(Hindware/Kingston/ Prima /Parko/ Marc),plastic seat with lid with controlled flush, low level cistern made of vitreous china of 10 litre (full flush) capacity-white etc complete.	1.00	nos
80	Supplying and fixing CPVC gutter at the eve of roof for collecting rain water including necessary elbow drop,end drop,open nosil, jointer and pathy clamp for holding gutter fixing to line and level cost and conveyance of all materials labour etc. complete.		

a.	Size up 200mm	12.00	m
81	Rectification of leakage of PVC pipes of following diameters in water lines upto length of less than 50 cms including cost of PVC pipes and specials such as couplings, bends, tees, reduced tees, unions, nipples, washers, adapters (male or female), reducers, elbows etc. including all labour and incidental charges etc. complete, all as directed by the Engineer-in-charge. (Rate quoted shall be for the rectification of one leak at a time and number of specials and length of pipe to be used may vary according to the nature of leak). All specials specified above are covered under this item but not fittings.		
a.	15 to 32 mm dia	30.00	nos
b.	40 to 90 mm dia	30.00	nos
82	Dismantling the following dia G.I / PVC pipes (with specials) for repairing water lines and refixing the pipe in line including cutting and making good the walls, including all labour for dismantling and refitting but excluding cost of fittings all as directed by the Engineer-in-charge.		
a.	up to 65mm dia.(considering 30 m)	2.00	m
b.	75mm dia and above up to 110 dia	2.00	m
83	Cutting and dismantling the MS pipe /Cast iron tyton joint pipes and transporting, stacking the same to the place pointed out by the Engineer-in-charge inside the CSL Store area etc. complete.		
a.	150mm dia----	2.00	m
b.	125mm dia-----	2.00	m
c.	100mm dia----	2.00	m
d.	80mm dia-----	2.00	m
84	Plugging GI / PVC pipe lines using suitable plugs / end caps after dismantling / cutting pipes etc, including all labour, earth work excavation up to 45 cm depth if required, cost of plugs/endcaps etc complete all as directed by the Engineer-in-charge.	5.00	nos
85	Servicing of PVC / cast iron flushtanks excluding cost of fittings but including all labour and all incidental charges, all as directed by the Engineer-in-charge.	10.00	nos
86	Servicing the valves of various sizes upto 150mm , replacing the damaged bolts and nuts, gland packing etc., painting the valve with synthetic enamel paint etc. complete.all as directed by the Engineer-in-charge.		
a.	C I valve up to 150 mm size	5.00	nos
87	Servicing the hydrant valves , including replacing the damaged nuts and bolts, gland packing wherever necessary, synthetic enamel painting to the valve after servicing etc. complete all as directed by the Engineer-in-charge.	4.00	nos
88	Conveying, threading, laying and jointing the following dia departmental G.I pipe in line with all specials including cutting and making good the walls, floors, trenching through all stratas to a maximum depth of 0.45m and refilling etc. complete, but excluding cost of cement, specials and pipes (which will be supplied departmentally free of cost) etc., all as directed by the Engineer-in-charge.		
a.	Pipes upto 25mm dia	10.00	m
b.	above 32 mm and up to 50mm	5.00	m
89	Clearing the chocking of outlet pipes / gully traps / urinals / wash basins etc in all the floors, including all incidental charges, dismantling, cleaning and refitting the waste pipes if necessary, all as directed by the Engineer-in-charge	10.00	nos
90	Clearing the closet chocking without damaging to the closet as directed by the Engineer-in-charge.	10.00	nos

91	Cleaning the pipe line and clearing the scum , sludge, floating objects etc. and disposing the same in pits which are already excavated at places pointed out by the Engineer-in-charge including backfilling the pit with the excavated earth without emitting foul smell etc. complete all as directed by the Engineer-in-charge.	15.00	m
92	Cleaning of PVC make water storage tank (inside surface area) at all heights with brushes, duster etc., removal of silt, rubbish from the tank and cleaning the tank with fresh water disinfecting with bleaching powder @ 0.5gm per litre capacity of tank including marking the date of cleaning on the side of tank body with the help of paint and disposing of malba all complete as per direction of Engineer-in-Charge.	150,000.00	ltr
93	Cleaning the Masonry / RCC overhead tank at various levels in various residential /office building by clearing all debris and moss etc. cleaning the side walls, floors and slab by wire brushing. The rate includes all labour charges, cost of fuel, hire for pump and tools etc. all as directed by the Engineer-in-charge.		
a)	Up to 10,000 litres capacity	2.00	nos
94	Cleaning the septic tank / sullage tank by suction and clearing the scum & sludge using tankers, the sludge to be disposed outside shipyard area, including removing the cover slab and refixing the same in position and to be sealed using cement mortar, (including rate for loading, transporting and unloading), all labour for sealing etc. complete, all as directed by the engineer in charge. but excluding cost of cement. Payment for quantity of sludge accumulated in septic tank, not for quantity carried out by tanker	5.00	m3
95	Supplying and fixing the following water supply fittings approved by the Engineer-in-charge, including cost and conveyance of all materials, all labour for fitting, all other incidental charges etc. complete for all levels.		
a)	G.M /Brass full way wheel valve (ISI heavy type)		
(i)	25mm	3	Nos.
(ii)	40mm	1	Nos.
(iii)	50mm	1	Nos.
b)	C.P. Brass/G.M. stop cock (heavy type)		
(i)	15mm	3	Nos.
(ii)	20mm	2	Nos,
c)	Taps / Valves etc.		
(i)	15mm C.P brass SDB tap (superior quality) 400g	1	Nos.
(ii)	15mm CP hose tap (superior quality)	1	No
(iii)	15mm CP push cock	5	Nos.
(iv)	15mm C.P. Pillar tap (best quality)	1	Nos.
(v)	15 mm CP long body tap	3	Nos
(vi)	15 mm CP short body tap	15	Nos
(vii)	15mm CP two way taps	10	Nos.
(viii)	15/20 mm dia angle cock	5	Nos.
(ix)	15mm PVC taps	1	Nos
(x)	20 mm PVC Air releasing valve	1	Nos
d)	G.M / Brass float valve with polythene float. (ISI-Heavy type)		
(i)	20mm dia	5	Nos
(ii)	25mm dia	1	Nos
(iii)	40mm dia	1	Nos
(iv)	50mm dia	5	Nos
e)	G.M/ Brass non return check valve (Heavy horizontal/ vertical type)		
(i)	100mm	1	No

f)	<u>G.I Unions</u>		
(i)	25 mm	1	Nos
(ii)	32mm	1	Nos
(iii)	40mm	1	Nos
(iv)	50mm	1	Nos
g)	<u>G.I. Hexagonal nipples</u>		
(i)	15mm / 20mm & 25mm size	1	Nos
(ii)	40mm & 50mm size	1	Nos
h)	<u>Brass /CP Hexagonal nipples</u>		
(i)	15mm / 20mm size	1	Nos
(ii)	25mm size	1	Nos
(iii)	40mm & 50mm size	1	Nos
i)	<u>G.I. elbows/ couplings /bends/Tees</u>		
(i)	15mm size	1	Nos
(ii)	20mm / 25mm size	1	Nos
(iii)	40mm size	1	Nos.
(iv)	50mm size	1	Nos.
j)	<u>CP extension pieces</u>		
(i)	15mm / 20mm size up to 100 mm long	1	Nos
(ii)	25mm /32mm size up to 100 mm long	1	Nos.
k)	<u>G.I. Reducers/reducing elbows</u>		
(i)	32 mm to 15mm	1	Nos.
(ii)	50 mm to 32mm	1	Nos.
l)	<u>SS gratings</u>		
(i)	75mm /100 mm size	3	Nos
(ii)	125/150mm size	1	Nos
m)	<u>C.P waste couplings</u>		
(i)	32mm	5	Nos.
(ii)	40 mm / 50 mm	1	Nos
n)	<u>PVC waste connections</u>		
(i)	32mm/40mm size	5	No
p)	<u>PVC Foot valve</u>		
(i)	25mm / 32 mm size	1	Nos.
(ii)	40 mm / 50 mm size	1	No
q)	<u>Other items</u>		
(i)	15mm /20mm Brass hose collar	1	Nos.
(ii)	40mm / 50mm GI hose collar	1	Nos.
(iii)	C.P. cup for water line fittings of 15mm and 20mm dia	1	Nos
(iv)	Standard Spreader for urinal basin	3	Nos
(v)	PTMT water tank connector-up to 63mm	1	Nos
(vi)	15mm C.P. brass adjustable shower rose- ordinary type	1	Nos
(vii)	Shower arm 15mm/20mm dia	1	Nos
(viii)	Hose clips for hoses up to 65mm dia hoses	1	Nos
(ix)	CP Coat hooks	15	Nos
(x)	CP BrassToilet paper holder	1	Nos
(xi)	C P Health faucet holder	1	Nos
(xii)	PVC Shower with arm	1	Nos
r)	<u>Brass ball valves</u>		
(i)	15 mm sizes	5	Nos
(ii)	20 mm sizes	1	Nos
(iii)	25 mm size	5	Nos
(iv)	40 mm size	1	Nos
(v)	50 mm size	5	Nos
s)	<u>PVC Float v/v with polythene floats</u>		
(i)	15 mm size	1	Nos
(ii)	20 mm size	1	Nos
(iii)	25 mm size	3	Nos
t)	<u>GI barrel nipple</u>		
(i)	Up to 25 mm size 15 cm long	1	Nos
(ii)	40/50 mm size 15 cm long	1	Nos

(iii)	Up to 25 mm size 30 cm long	1	Nos
(iv)	40/50 mm size Up to 30 cm long	1	Nos
96	Supplying and fixing / replacing approved quality and brand health faucet as per the direction of the Engineer-in-charge	10	Nos
97	Supplying and fixing / replacing 15mm / 12 mm PVC inlet connection , as directed by the Engineer-in-charge.	1	Nos.
98	Supplying and fixing the following size of approved brand (best quality) C.P concealed valve , including cost of all materials, labour charges etc. complete, all as directed by the Engineer-in-charge.		
a)	15mm	2	Nos.
b)	20mm	1	No
99	Supplying and fixing the following best quality fittings / specials for PVC flushing cistern after removing the existing, including cost of materials, labour charges, other incidentals etc. complete as per the direction of the Engineer-in-charge.		
a)	PVC syphon to suit the PVC flush tank	3	Nos.
b)	PVC handle for PVC flush tank	3	Nos
c)	PVC float valves for flush tanks	3	Nos
d)	Syphon washer for PVC flush tank	3	Nos
e)	Syphon set for cascade flush tank	3	Nos.
100	Supplying and fixing of following size double flanged non rising type sluice valve conforming to IS:14846, class 125 with GM internals, including all labour, cost and conveyance of all materials, cost of bolts & nuts, gaskets, fixing other incidentals etc. complete all as directed by the Engineer-in-charge.		
a)	100 NB	1	Nos
101	Supplying, threading, laying and jointing the following dia. 'B' class G.I pipes and specials such a tees, bends, elbows, checknuts etc. with clamps, plugs, screws etc. including cutting and making good the walls, RCC floors, slabs etc. trenching through all stratas to a maximum depth of 0.45m and refilling etc. complete all as directed by the Engineer-in-charge.		
a)	15NB	2.00	m
b)	20NB	5.00	m
c)	25NB	5.00	m
d)	32NB	2.00	m
e)	40NB	2.00	m
f)	50NB	5.00	m
102	Supplying, fixing, laying and jointing the following dia PVC pipes with pasted type joints of approved quality using solvent cement including all cost and conveyance of all materials, sundries etc. complete. The rate shall be inclusive of supplying and fixing necessary specials etc. as per the direction of the Engineer-in-charge. (Pipe pieces of length below 50cm used for leak rectification works will not be measured under this item).		
a)	20mm dia PVC pipe (10kg/cm ²)	3.00	m
b)	25mm dia (10kg/cm ²)	3.00	m
c)	32mm dia (10kg/cm ²)	3.00	m
d)	40mm dia (10kg/cm ²)	3.00	m
e)	50mm dia (10kg/cm ²)	5.00	m
f)	63mm dia (6kg/cm ²)	5.00	m
g)	75mm dia (6kg/cm ²)	5.00	m

103	Supplying, laying and jointing CPVC pipes of approved quality and brand for hot water line with suitable specials, including cost and conveyance of all materials, necessary specials, other incidentals etc. complete for all levels.		
a)	15 mm size	50.00	m
b)	20 mm size	2.00	m
a)	25 mm size	25.00	m
b)	32 mm size	2.00	m
b)	50 mm size	2.00	m
104	Supplying and fixing ISI marked / best quality approved brand 110 mm PVC specials at all heights including cost and conveyance, all labour and all other incidentals etc. complete all as directed by the Engineer-in-charge.		
a)	Tees, door tees, bends etc.	2.00	Nos.
b)	Adapters, reducers, offsets, vent cowl etc.	2.00	Nos.
c)	Elbows, door elbows, reducer elbows, etc.	2.00	Nos.
105	Supplying and fixing ISI marked / best quality approved brand 160 mm PVC specials at all heights including cost, conveyance, labour and all other incidentals etc. complete all as directed by the Engineer-in-charge.		
a)	Tees, door tees, bends etc.	1.00	Nos.
b)	Adapters, reducers, offsets, vent cowl etc.	1.00	Nos.
c)	Elbows, door elbows, reducer elbows, etc.	1.00	Nos.
106	Supplying and fixing / replacing PVC balls for the following sizes of float valves (medium quality) including all cost of materials, labour charges, other sundries etc. complete all as directed by the Engineer-in-charge.		
a)	Balls for 15/20/32 mm size float valves	3.00	Nos.
b)	Balls for or 40/50 mm size float valves	3.00	Nos.
107	Supplying and fixing duroplastic seat with cover of approved make in position for European Water Closet, including cost and conveyance of materials, labour charges for dismantling and fitting, all other incidentals etc. complete.		
a)	Duroplastic seat with cover of White colour	5.00	No
108	Supplying and fixing the approved quality and brand ISI marked high level / low level PVC flushing cistern 10 litre or nearest capacity, including cost of materials, labour charges, all other incidentals etc. complete as per the direction of the Engineer-in-charge.		
a)	White colour	3.00	Nos.
109	Supplying and fixing approved branded ((Hindware/Paryware/RAK/Cera) quality and shade 550mmx 400mm or nearest size wash hand basins of glazed earthenware, with necessary brackets, one central single lever quarter turn pillar cock with foam flow, one central 15mm PVC connection, 1 no 15 mm CP stop cock, CP brass waste of standard patterns, 32mm PVC waste pipe, cutting and making good the walls, painting the brackets two coats including cost and conveyance of all materials, labour, other incidentals etc. complete.	1	Nos.
110	Supplying and fixing the following dia approved quality PVC flexible hose including cost and conveyance of all materials, labour charges, all other sundries etc. complete as directed by the Engineer-in-charge.		

a)	25 mm	1.00	m
b)	32 mm	1.00	m
MISCELLANEOUS WORKS			
111	Replacing the damaged modular table lock arrangement including cost and conveyance of all materials, all labour etc complete.(payment is for each lock arrangement)	10.00	nos
112	Supplying and fixing best quality and approved type Automatic Hydraulic door closers (medium) as per the instructions of the department personals including all cost of materials, labour charges etc. complete as directed by the Engineer-in-charge	10.00	Nos
113	Servicing Automatic door closers once in one year or at call after repairs including cost and labour for replacement of defective parts if any etc. complete all as directed by the Engineer-in-charge.	10.00	Nos
114	Painting with Coaltar Epoxy paint , after rubbing and cleaning the surface, mechanical buffing, wire brushing to the satisfaction of Engineer-in-charge, including cost and conveyance of all materials, labour, other incidentals etc. complete.		
a.	One coat Coaltar Epoxy paint	25.00	m ²
b.	Succeeding coat	10.00	m ²
115	Stopping water leakage through the cracks, gaps, leakages in AC sheet/G.I. Sheet/valley gutter/downwater pipes, at all heights by pasting Bostik flashband tape/Sika multiseal tape after cleaning the surface, making dustproof and making the surface moisture free, fixing tape, tying with binding wire in the case of downwater pipes including cost of all materials, labour, tools and other incidental charges etc. complete.		
a.	Upto 0.01 m2	5	m ²
b.	Above 0.01 m2	10.00	m ²
116	Cleaning the valley gutters/ eaves gutter including removing all debris within CSL premises without causing any damage to the gutter.	400.00	m
117	Providing and applying fibre reinforced elastomeric liquid water proofing membrane with resilient acrylic polymers having Sun Reflectivity Index (SRI) of 105 on top of concrete roof in three coats @10.76 litre/ 10 sqm. One coat of self-priming of elastomeric waterproofing liquid (dilution with water in the ratio of 3:1) and two coats of undiluted elastomeric waterproofing liquid (dry film thickness of complete application/system not less than 500 microns). The operation shall be carried out after scrapping and properly cleaning the surface to remove loose particles with wire brushes, complete in all respect as per the direction of Engineer-in-Charge.	50.00	m ²
118	Providing and fixing in position approved quality white glazed earthenware flat back lipped front urinal 265 x 315 x 440mm or nearest size having a 15mm PVC connection, 32mm or nearest dia PVC waste connection and 1 no CP spreader connected to waterline and 15mm brass push cock, cutting and making good the walls and floors, including cost and conveyance of all materials, screws, plugs, labour, other incidentals, etc. complete. All PVC items are to be heavy duty type.	2	Nos.
119	Supplying and fixing 690 x 165 x 325mm size or nearest size porcelain urinal division plate of approved quality and colour as directed by the Engineer-in-charge.	3	Nos.

Job Completion Period : 01 year

Seal & Sign of Authorised Person

PRICE BID						
MP1/ARC/CIVILWORKS/23-24/CMSRU				Encl:3		
Maintenance rate contract for items common for all Civil works in buildings in CSL-CMSRU & JTA/Officers quarters at Wadala & Mazgaon for the year 2023-2024						
Sl No	Description of work	Qty	UoM	Unit Rate (Rs.)	Total Rate (Qty x Unit Rate) (Rs.)	GST(%)
EARTH WORK						
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil ,backfilling the same soil or disposal of surplus excavated soil as directed.Rate is inclusive of demolishing bituminous surface/ concrete/ rubble/ solingstone etc if any.complete.	50.00	m ³	xx	xx	xx
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	30.00	m ³	xx	xx	xx
3	Supplying and Filling inside basement with local good earth(including royalty) and consolidating in layers not exceeding 150mm thick each, in line and level including watering, ramming consolidating and dressing, cost and conveyance of all materials, labour, other incidentals etc complete.	20.00	m ³	xx	xx	xx
4	Clearing site including uprooting of vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level, removal of rubbish and disposal within CMSRU premises as per direction of Engineer-in-Charge including all labour, other incidentals, hire for tools and plants etc. complete.	500.00	m ²	xx	xx	xx
5	Surface dressing of the ground in all kinds of soil including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish and debris within a lead of 3km including all labour, other incidentals etc. complete.	500.00	m ²	xx	xx	xx
6	Supplying,spreading and consolidating stone dust in layers not exceeding 150mm thick each in line and level including cost and conveyance of all materials,labour,other incidentals etc. complete.	30.00	m ³	xx	xx	xx
CONCRETE						
7	Providing and laying plain cement concrete 1:4:8 using 40mm down graded IS nominal size hard broken metal including cost and conveyance of all materials,labour for mixing, laying, consolidating curing as per IS.456 etc.complete but excluding cost of cement and cost of formwork.	30.00	m ³	xx	xx	xx
8	Providing Form work,Centering and shuttering including strutting, propping using shuttering sheet,supporting beams, supporting jacks,wooden planks and other incidentals etc. including removal of formwork after completion of work and clearing all materials and cost and conveyance of all materials labour etc	300.00	m ²	xx	xx	xx
9	Providing and laying reinforced cement concrete 1:2:4 using 20mm down graded broken granite metal in ground floor upto 5m height including cost and conveyance of all materials, labour for mixing, laying, consolidating, curing,cost of dewatering etc.complete but excluding cost of cement,cost of formwork and cost of reinforcement.	50.00	m ³	xx	xx	xx

10	Providing and laying reinforced cement concrete 1:11/2:3 using 20mm down graded broken granite metal for columns , beams and slabs including cost and conveyance of all materials, labour for mixing, laying, consolidating, curing, cost of dewatering etc.complete but excluding cost of cement, cost of formwork and cost of reinforcement. (formwork and reinforcement which will be measured separately).					
a.	All work upto plinth level	50.00	m ³	XX	XX	XX
b.	Above plinth level up to fourth floor level	10.00	m ³	XX	XX	XX
11	Reinforcement for RCC work including cost and conveyance of all materials, labour for, uncoiling, straightening, cutting, bending, laying & tying with 22G binding wire etc.complete but excluding cost of steel (mild steel or tor steel) but including cost of binding wire.	100.00	Qtl	XX	XX	XX
12	Pressure grouting in Concrete/Masonry area etc using modified cement slurry added with expansive additive of approved brands like SIKA, FOSROC, CHRYSO, etc after fixing up of 12mm dia PVC nipple etc at points as directed by the engineer- in- charge .The ratio of proportioning chemical to cement shall be as per manufactures recommendation. The rate shall include the cost and conveyance of all materials, hire charges for pressure gun, all labours and material excluding the cost of cement. (The payment shall be made on the basis of actual weight of approved grout injected.)	15.00	kg	XX	XX	XX
BRICK/BLOCK/STONE WORK						
13	Brick work with common burnt clay machine moulded modular bricks of class designation 12.5 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand).					
a.	Rate for Foundation and basement	30.00	m ³	XX	XX	XX
b.	For super structure	15.00	m ³	XX	XX	XX
14	Brick work in CM 1:4 for half brick wall using class designation 7.5 for superstructure including cost and conveyance of all materials, labour, other incidentals etc complete, excluding cost of cement. CPWD 6.13.2					
a.	Up to second floor level	75.00	m ²	XX	XX	XX
15	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) & pointing with CM 1:3 including cost and conveyance of all materials, labour, other incidentals etc complete, excluding cost of cement upto plinth level					
a.	For foundation and basement	5.00	m ³	XX	XX	XX
16	Providing and laying factory made Precast concrete solid blocks of 200 mm thickness of grade M10 from approved manufacturer in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand) for all leads and lifts including cost and conveyance of all materials, labour, other incidentals like scaffolding, curing etc complete, excluding cost of cement. cement.					
a.	Upto plinth level	30.00	m ³	XX	XX	XX
b.	Upto 5th floor	5.00	m ³	XX	XX	XX
17	Providing and laying half block masonry with factory made Precast concrete solid blocks of 100 mm thickness of grade M10 waste from approved manufacturer in foundation and plinth in: cement mortar 1:4(1 cement : 4 coarse sand) for all leads and lifts including cost and conveyance of all materials, labour, other incidentals like scaffolding, curing etc complete, excluding cost of cement.					
a.	Upto plinth level	15.00	m ²	XX	XX	XX
b.	Upto 5th floor	5.00	m ²	XX	XX	XX
DOORS/WINDOWS/VENTILATORS						
18	Supplying and fixing/replacing Marine plywood to the doors/partitions/floors etc including cost and conveyance of all materials, labour charges, all incidentals etc. Complete.					
a.	12mm	5.00	m ²	XX	XX	XX
19	Providing and fixing/replacing mosquito proof nets made of the following materials to the door/window/ventilator frames already fixed using teak wood with beading screws, nails etc. including cost and conveyance of all materials labour etc. complete(Planned and framed work if required for openable shutters will be paid separately. Fittings will be paid separately)					
a.	Stainless steel	2.00	m ²	XX	XX	XX
20	Providing and replacing/ fixing stainless steel/brass fixtures to doors /windows / ventilators/ partitions with necessary screws ,including cost and conveyance of all materials labour etc. complete					
a.	75mm butt hinges (Stainless steel)	4.00	nos	XX	XX	XX
b.	100mm butt hinges (Stainless steel)	4.00	nos	XX	XX	XX
c.	125mm butt hinges (Stainless steel)	4.00	nos	XX	XX	XX
d.	100mm barrel tower bolt(Brass)	4.00	nos	XX	XX	XX
e.	150mm barrel tower bolt(Brass)	4.00	nos	XX	XX	XX
f.	150mm aldrop(Stainless steel)	4.00	nos	XX	XX	XX
g.	200mm aldrop(Stainless steel)	4.00	nos	XX	XX	XX
h.	100mm door handles (Aluminium powder coated)	4.00	nos	XX	XX	XX

i.	Door stopper (Stainless steel)	4.00	nos	XX	XX	XX
j.	100 mm hooks and eyes (Stainless steel)	4.00	nos	XX	XX	XX
k.	150mm hooks and eyes(Brass)	4.00	nos	XX	XX	XX
21	Supplying and fixing/replacing approved quality Indian make Aluminium section lock for doors. including cost and conveyance of all materials,labour and other incidentals etc. complete.	2.00	nos	XX	XX	XX
22	Supplying and fixing/replacing broken glass panes for doors, windows, ventilators etc including cost and conveyance of all materials and other incidentals etc. complete. (Rate includes cost of Neoprene/EPDM rubber gasketwooden beading, putty, clips etc of approved quality wherever required)					
a.	4mm plain glass	1.00	m ²	XX	XX	XX
b.	5mm plain glass	1.00	m ²	XX	XX	XX
23	Suppling and fixing following plain glass with edge rounded for table top.					
a.	8mm thk plain glass	1.00	m ²	XX	XX	XX
24	Supplying and fixing 30 mm thick Glass Fibre Reinforced Plastic (FRP) panelled door shutter of required colour and approved brand and manufacture, made with fire - retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate for forming hollow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places for fixing of fittings, cast monolithically with 5 mm thick FRP laminate for panels conforming to IS: 14856, with approved accessories such as 100mm SS hinges 4 nos., 100mm Anodised aluminium tower bolt 1no., 150mm aluminium aldrop 1no., Chromium plated Brass mortice latch and lock 100x65 mm with 6 levers and a pair of brass lever handles and necessary screws including cost of labour and all other incidentals etc. complete. .					
a.	With out Frame	5.00	m ²	XX	XX	XX
b.	With Frame of section 90 x 45 mm	5.00	m ²	XX	XX	XX
25	Supplying and fixing / replacing M.S weld mesh 50mmx50mmx4mm using necessary screws, wooden beeding ,painting with one coat of iron primer etc. complete.	10.00	m ²	XX	XX	XX
26	Supplying and fixing, 22G aluminium sheets to the wood planks, shelf, doors, windows,walls & roofs etc.including cost and conveyance of all materials labour charges, all wastages, other sundries etc. complete.	10.00	m ²	XX	XX	XX
FLOORING						
27	Providing and laying plain cement concrete 1:11/2:3 using 6mm/12mm down graded IS nominal size hard broken aggregate after cleaning the surface and applying necessary bonding agents like Nitobond SBR or equivalent @1.3litre/m3 for proper bonding between old and new concrete including cost and conveyance of all materials, formwork, labour for mixing, laying, consolidating curing etc.complete but excluding cost of cement.	2.00	m ³	XX	XX	XX
28	Providing and laying plain cement concrete 1:11/2:3 using 6mm/12mm down graded IS nominal size hard broken metal after cleaning the surface including cost and conveyance of all materials, formwork, labour for mixing, laying, consolidating curing etc.complete but excluding cost of cement.	2.00	m ³	XX	XX	XX
29	Supplying and laying non-slippery ceramic flooring tiles of approved brand ,quality and colour after clearing the floor properly by pasting with chemical adhesive Cerabond and equivalent and pointing the joints with coloured cement to match with the tiles in line and level including cost and conveyance of all materials, labour other incidentals etc. complete. (Basic rate of tile Rs. 410/m2 excluding GST)	10.00	m ²	XX	XX	XX
30	Supplying and laying ceramic glazed tiles of approvedbrand ,quality and colour for dadoing by pasting with chemical adhesive Cerabond /equivalent and pointing the joints with coloured cement to match with the tiles in line and level including cleaning the existing surface properly, cost and conveyance of all materials, labour other incidentals etc. complete (Basic rate of tile Coloured Tiles Rs. 420/m2 Excl. GST)					
(a)	(450mm x 300mm)	10.00	m ²	XX	XX	XX
31	Supplying and laying non-slippery/anti-skid ceramic flooring tiles of approved brand ,quality and colour set in CM 1:4 20mm thick and Jointing with grey cement slurry @ 3.3 kg/sqm for the proper binding of the tiles to line and level, pointing the joints with coloured cement to match with the tiles including cost and conveyance of all materials, labour other incidentals (size 300mm x 300mm), excluding cost of cement.(Basic rate of tile Rs.410/m2 Excl.GST)etc. complete	10.00	m ²	XX	XX	XX

32	Supplying and laying ceramic glazed tiles of approved brand ,quality and colour for dadoing by pasting with Cement and pointing the joints with coloured cement to match with the tiles in line and level including cleaning the existing surface properly, cost and conveyance of all materials, labour other incidentals etc. quantity of cement shall be measured in relevant item. complete (Basic rate of tile Coloured Tiles Rs.420/m2 Excl.GST)	10.00	m ²	XX	XX	XX
33	Supplying and laying ceramic glazed tiles of approved brand ,quality and colour for dadoing set in CM 1:3 12mm thick and jointing with grey cement slurry @3.3kg per sqm for the proper binding of the tiles to line and level pointing the joints with coloured cement to match with the tiles including cost and conveyance of all materials, labour other incidentals etc. complete, excluding cost of cement.(Basic rate of tile 420/m2 Excl. GST) (size of 450mm x 300mm)	10.00	m ²	XX	XX	XX
34	Supplying and laying approved type and colour Vitrified flooring Tiles approved brand , set in CM 1:4 20mm thick and jointing with grey cement slurry @ 3.3 kg/ sqm for the proper binding of the tiles to line and level, pointing the joints with coloured cement to match with the tiles including cost and conveyance of all materials, labour other incidentals etc. complete, excluding cost of cement.					
a.	600x600mm (Basic rate of tile per Sq mtr Rs.`660.0 Excl.GST)	10.00	m ²	XX	XX	XX
a.	800x800mm (Basic rate of tile per Sq mtr Rs.`850.0 Excl.GST)	10.00	m ²	XX	XX	XX
35	Supplying and laying approved brand ,quality Vitrified flooring Tiles of size not less than 600x600mm,by pasting with chemical adhesive Cerabond /equivalent and pointing the joints with coloured cement to match with the tiles in line and level including cleaning the existing surface properly, including cost and conveyance of all materials, labour other incidentals etc. complete,					
a.	600x600mm (Basic rate of tile per Sq mtr Rs.`660.0 Excl.GST)	20.00	m ²	XX	XX	XX
a.	800x800mm (Basic rate of tile per Sq mtr Rs.`850.0 Excl.GST)	20.00	m ²	XX	XX	XX
36	Supplying and laying approved brand ,quality and colour Vitrified pavement Tiles(300mm x 300mm) , set in CM 1:3 20mm thick and jointing with grey cement slurry @ 3.3 kg/ sqm for the proper binding of the tiles to line and level, pointing the joints with coloured cement to match with the tiles including cost and conveyance of all materials, labour other incidentals etc. complete, excluding cost of cement.(Basic rate of tile Coloured Tiles Rs. 350/m2 Excl.GST)	10.00	m ²	XX	XX	XX
37	Dismantling &Relaying floor tiles work in all floors of the building set in CM 1:4 20mm thick and jointing with grey cement slurry @ 3.3 kg/ sqm for the proper binding of the tiles to line and level, pointing the joints with coloured cement to match with the tiles including cost and conveyance of all materials, labour other incidentals etc. complete, excluding cost of cement.	20.00	m ²	XX	XX	XX
38	Dismantling & Relaying floor tiles work in all floors of the building by pasting with chemical adhesive Cerabond /equivalent and pointing the joints with coloured cement to match with the tiles in line and level including cleaning the existing surface properly,including cost and conveyance of all materials, labour other incidentals etc. complete,	10.00	m ²	XX	XX	XX
39	Supplying and laying Ferrocon/ Scorpio /equivalent precast cement concrete tiles of approved quality and colour set in CM 1:4 20mm thick and cement adding necessary cement grout for the proper binding of the tiles to line and level pointing the joints with coloured cement to match with the tiles including rubbing and cleaning including cost and conveyance of all materials, labour other incidentals etc. complete, excludig cost of cement.	10.00	m ²	XX	XX	XX
40	Supplying and laying polished 18mm thick Granite slab in required design and patterns with smoothly polished upper edges in semi circular shape, set in CM 1:3, 20mm thick plastering laid and jointed with cement slurry and pointing with pointing powder pigment of matching shade including rubbing, curing and polishing etc in line and level including cost of all materials, conveyance, labour, other incidentals etc complete, excluding the cost of cement. (Basic rate of Granite is Rs.2500/m2)	10.00	m ²	XX	XX	XX
41	Supplying and laying marble slab of approved quality and colour of 18 mm or nearest available as per sample approved by EIC, thickness laid in CM 1:3, 15 mm thick with necessary cement grout for proper binding of slab including cost of marble slab, making the edge round, rubbing and polishing and conveyance of all materials, labour, other incidentals etc complete excluding the cost of cement.(Basic Rate 1150/m2)	2.00	m ²	XX	XX	XX

42	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand over compacted soil , compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in Charge	10.00	m ²	XX	XX	XX
ROOFING						
43	Providing and fixing/replacing on roofing/cladding with reinforced by organic fibres and/or inorganic synthetic fibres cement 6 mm thick corrugated sheets (as per IS: 14871) roofing up to any pitch and fixing with polymer coated J, or L hooks, bolts and nuts 8 mm dia. G.I. plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete (excluding the cost of purlins, rafters and trusses), including cutting sheets to size and shape wherever required.	10.00	m ²	XX	XX	XX
44	Providing and fixing/replacing on roofing/cladding at all heights, levels and locations Aluminium profile industrial troughed sheet of Alloy 31500/31000/40800, conforming to IS 1254, IS 737, IS 2676. The sheet shall be fixed using self drilling/self tapping GI screws of size 5.5x65 mm with EPDM seal complete upto required pitch in horizontal, vertical or curved surfaces i/c cutting to size and shape where required as per specifications and direction of Engineer-in-Charge. The rate shall be inclusive of all screws, seal, ridge, labour, scaffolding, machinery for fixing and approved sealant where required etc. but excluding the cost of purlins, rafters and trusses.					
a.	0.71 mm thick, the profile detail width 1044/920 mm, cover width 1000/875 mm.	15.00	m ²	XX	XX	XX
b.	0.56 mm thick, the profile detail width 1044/920 mm, cover width 1000/875 mm.	15.00	m ²	XX	XX	XX
c.	0.46 mm thick, the profile detail width 1044/920 mm, cover width 1000/875 mm.	10.00	m ²	XX	XX	XX
FINISHING						
45	Providing, mixing and applying bonding coat of approved adhesive on chipped portion of RCC as per specifications and direction of Engineer-In-charge complete in all respect. SBR Polymer (@10% of cement weight) modified cementitious bond coat @ 2.2 kg cement per sqm of surface area mixed with specified proportion of approved polymer	2.00	m ²	XX	XX	XX
46	Providing, mixing and applying SBR polymer (of approved make) modified Cement mortar in proportion of 1:4 (1 cement: 4 graded coarse sand with polymer minimum 2% by wt. of cement used) as per specifications and directions of Engineer-in-charge. Note: Measurement and payment: The pre-measurement of thickness shall be done just after the surface preparation is completed and Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding / tapping with a blunt metal instrument and/or the 75mm size cube crushing strength at the end of 28 days to be not less than 30 N/Sqmm2).	2.00	m ²	XX	XX	XX
47	Providing, mixing and applying SBR polymer (of approved make @ minimum 2% by wt. of cement used) modified plain/reinforced cement concrete for structural members having minimum characteristic compressive strength [with ordinary portland cement, coarse sand and graded stone aggregate of 10mm maximum size in proportion as per design criteria] with specified average thickness. Note: Rates shall be for finished surface area of concrete and shall include the cost of labour, concrete and appropriate approved Super-Plasticiser for rendering concrete as flowable and SBR polymer but shall exclude cost of cement, reinforcement, bond coat, Shear Keys, centering and shuttering, strutting, propping etc (Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding/tapping with a blunt metal instrument)	1.00	m ³	XX	XX	XX
48	Cleaning the RCC/ weather proofing surface (including rain water pipes/ down water pipes) by removing all wild growths and disposing the debris within initial lead of 150m etc. complete (where actual area is not possible to measure, labour will be paid as per the relevant item.)	50.00	m ²	XX	XX	XX
49	Plastering with CM floated hard and trowelled smooth including cost and conveyance of all materials, labour, curing including scaffolding etc. complete as directed by the Engineer-in- charge but excluding cost of cement.					
a.	1:4, 12mm thk.(1cement : 4Fine sand)	50.00	m ²	XX	XX	XX

b.	1:3, 20mm thk.(1cement : 3Fine sand)	10.00	m ²	XX	XX	XX
50	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	50.00	m ²	XX	XX	XX
51	Providing Chicken mesh and clamping over the concrete with sufficient overlapping including cost and conveyance of all materials, labour, all other incidentals etc. complete	5.00	m ²	XX	XX	XX
52	Painting with primer of approved quality and shade after rubbing and cleaning the surface including cost and conveyance of all materials,labour, scaffolding other incidentals, curing (wherever required) etc.complete.					
(a)	One coat cement primer on plastered surface	50.00	m ²	XX	XX	XX
(b)	One coat zinc chromite primer	30.00	m ²	XX	XX	XX
(c)	One coat zinc chromite primer	1.00	MT	XX	XX	XX
(b)	One coat wood primer	10.00	m ²	XX	XX	XX
53	Painting with ready mixed interior quality plastic emulsion paint of approved quality and colour after rubbing and cleaning the surface using wire brush, sand paper etc. wherever required including cost and conveyance of all materials, labour, scaffolding other incidentals etc. complete.					
(a)	One or more coats on old work	50.00	m ²	XX	XX	XX
54	Painting with exterior quality Acrylic emulsion paint of premium quality and colour after rubbing and cleaning the surface using wire brush,sand paper etc. including cost and conveyance of all materials labour, scaffolding other incidentals etc. complete.					
(a)	Two or more coats on old surface (@1.67ltr/10sqm)	50.00	m ²	XX	XX	XX
(b)	One or more coats on old surface(@.90ltr/10sqm)	20.00	m ²	XX	XX	XX
55	Painting with synthetic enamel paint of approved quality and colour after rubbing and cleaning the surface using wire brush, sand paper etc. wherever required including cost and conveyance of all materials, labour,scaffolding other incidentals etc. complete.					
(a)	Two or more coats on new surface	30.00	m ²	XX	XX	XX
(b)	One or more coat on old surface	25.00	m ²	XX	XX	XX
56	White cement washing after cleaning the surface including cost and conveyance of all materials, labour, other incidentals etc complete.					
a.	One coat (for old/new surface)	50.00	m ²	XX	XX	XX
57	Washing and cleaning surface of all types of buildings such as Industrial / office/residential/ compound wall etc by washing with water using hoses, brushes ,brooms etc at all heights including all labour removing off all dirt, wild growth etc disposing the debris within a lead of 150m etc complete.	50.00	m ²	XX	XX	XX
58	Supplying & replacing White metal perforated Aluminium ceilings of size 600x600 Tegular edged to the existing aluminum frame work in all floors of the building at places wherever required including and conveyance of all materials, labour charges, scaffolding and other sundries incidentals etc complete.	3.00	m ²	XX	XX	XX
STRUCTURAL STEEL WORK						
59	Fabrication & erection of Structural steel work , using Tees, angles, channels, plates,Tubes & Pipes etc. at all heights, fixed with or without connecting plate, including cutting, bending/straightening, welding/ bolting, fabrication, erecting in position, aligning the erected structure, cost of all accessories, hire for tools and plants and applying a priming coat with zinc chromate primer after mechanical buffing, etc complete. all as directed by the Engineer-in-charge.(all miscellaneous items made of steel shall be measured in the same item) complete.					
a.	Using Steel procured by the contractor	1,000.00	kg	XX	XX	XX
b.	Using departmental steel	1,000.00	kg	XX	XX	XX
60	Supplying& fixing following dia approved brand anchor bolts after drilling suitable holes in various depth as per the requirements, placing the bolt to correct line and level. Rate quoted should be inclusive of hire charges of drilling machine, labour, etc complete all as directed by the Engineer-in-charge.					
a.	M12x145 mm size	50.00	nos	XX	XX	XX
b.	M16x137 mm size	20.00	nos	XX	XX	XX
ALUMINIUM WORK						
61	Labour for servicing and repairs to glazed aluminium doors/windows, including replacing parts such as tower bolt, hinges,sliding window lock, rubber beading etc. complete as directed by the Engineer- in - charge. (Cost of parts will be paid separately)	3.00	m ²	XX	XX	XX
62	Providing and fixing in position openable type mosquito proof windows/ doors or exhaust openings using powder coated Aluminium frames of approved quality and shade using 25 x 25 x 1.5mm size or nearest available sections and stainless steel net, EPDM beading,locking arrangement, screws, nails etc including cost and conveyance of all materials,all labour etc.complete as directed by the Engineer in charge.	3.00	m ²	XX	XX	XX
63	Providing and fixing in position half glazed partition using 63.5x38.10x2mm thk.or nearest available size powder coated aluminium rectangular sections of approved quality and shade panelling with 8 mm thk.by prelaminated particle board and 5mm thk plain glass fixed with necessary EPDM beading including cost and conveyance of all materials,labour etc.complete.	6.00	m ²	XX	XX	XX
64	Providing fixing/replacing good quality EPDM beading 25x32mm to door/window to make air tight by fixing it using suitable quality binding material including all cost and conveyance, labour etc. complete	4.00	m	XX	XX	XX

65	Supplying and pasting sun control film to the shutter of glazed doors/windows/partitions after cutting to the required size including cost and conveyance of all materials, labour other sundries etc. complete all as directed by the Engineer- in- charge.					
a)	Check/ Strips/ frosted	20.00	m ²	XX	XX	XX
DISMANTLING/DEMOLISHING						
66	Dismantling, clearing away and carefully stacking materials useful for reuse for any thickness of wall of brick, laterite or rubble in cement mortar including disposal of debris within as per directed by EIC etc. complete.	20.00	m ³	XX	XX	XX
67	Dismantling and removing doors/windows with or without ventilators including removal of shutters, hinges, holdfasts and all other fittings and stacking materials as per directed by EIC etc complete.	2.00	nos	XX	XX	XX
68	Demolishing PCC/RCC work manually/ by mechanical means including separately removing and stacking the available reinforcement and clearing away the debris as per directed by EIC etc. complete.	5.00	m ³	XX	XX	XX
69	Demolishing and removing cement plaster of any thickness and stacks of cleaned materials available/disposal of debris as per directed by EIC etc. complete.	5.00	m ²	XX	XX	XX
70	Dismantling and removing tiles set in cement mortar including cleaning and stacking, serviceable materials and removing the debris as per directed by EIC etc. complete.	20.00	m ²	XX	XX	XX
71	Dismantling,removing and lowering wooden frame work ,planked sheeting , ceiling planks, AC/GI sheets for roofing, cladding, ceiling, wooden partition stacking serviceable materials & removing the unserviceable material as per directed by EIC etc. complete.	2.00	m ²	XX	XX	XX
72	Dismantling A.C./G.I. corrugated sheets of roofing/cladding up to height of 5metres including conveying and stacking the dismantled materials at the places pointed out by the Engineer-in-charge.	3.00	m ²	XX	XX	XX
MAN POWER SUPPLY						
73	Carrying out miscellaneous works by arranging various categories of labour as per the direction of the Engineer-in-charge.					
a.	Man(Unskilled)	300.00	Hrs	XX	XX	XX
b.	Semi skilled	50.00	Hrs	XX	XX	XX
c.	Mason, Carpenter,welder,Plumber, Painter,aluminium fabricator(Skilled)	300.00	Hrs	XX	XX	XX
SUPPLY AND STAKING						
74	Supplying and stacking at site 20mm hard granite broken stone in standard stack including cost and conveyance of all materials,labour other incidentals etc. complete for pre-measurement.	1.00	m ³	XX	XX	XX
75	Supplying and stacking at site 12mm/6mm hard granite broken stone in standard stack including cost and conveyance of all materials,labour other incidentals etc. complete for pre-measurement.	1.00	m ³	XX	XX	XX
76	Supplying and stacking at site good quality crusher sand in standard stack including cost and conveyance of all materials,labour other incidentals etc. complete for pre-measurement.	1.00	m ³	XX	XX	XX
77	Suppying and stacking at site OPC/PPC/PSC conforming to relevant IS.	15.00	T	XX	XX	XX
78	Supplying and stacking at site TOR steel reinforcement bars of different diameters conforming to relevant IS1786 .	5.00	T	XX	XX	XX
WATER SUPPLY/SANITARY/SEWAGE						
79	Supplying and fixing glazed earthenware European type water closet of white colours with 8 mm dia C.P. Brass/ S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate for Eueopean type W.C.(Hindware/Kingston/ Prima /Parko/ Marc),plastic seat with lid with controlled flush, low level cistern made of vitreous china of 10 litre (full flush) capacity-white etc complete.	1.00	nos	XX	XX	XX
80	Supplying and fixing CPVC gutter at the eve of roof for collecting rain water including necessary elbow drop,end drop,open nosil, jointer and pathy clamp for holding gutter fixing to line and level cost and conveyance of all materials labour etc. complete.					
a.	Size up 200mm	12.00	m	XX	XX	XX
81	Rectification of leakage of PVC pipes of following diameters in water lines upto length of less than 50 cms including cost of PVC pipes and specials such as couplings, bends, tees, reduced tees, unions, nipples, washers, adapters (male or female), reducers, elbows etc. including all labour and incidental charges etc. complete, all as directed by the Engineer-in-charge. (Rate quoted shall be for the rectification of one leak at a time and number of specials and length of pipe to be used may vary according to the nature of leak). All specials specified above are covered under this item but not fittings.					
a.	15 to 32 mm dia	30.00	nos	XX	XX	XX
b.	40 to 90 mm dia	30.00	nos	XX	XX	XX
82	Dismantling the following dia G.I / PVC pipes (with specials) for repairing water lines and refixing the pipe in line including cutting and making good the walls, including all labour for dismantling and refitting but excluding cost of fittings all as directed by the Engineer-in-charge.					

a.	up to 65mm dia.(considering 30 m)	2.00	m	XX	XX	XX
b.	75mm dia and above up to 110 dia	2.00	m	XX	XX	XX
83	Cutting and dismantling the MS pipe /Cast iron tyton joint pipes and transporting, stacking the same to the place pointed out by the Engineer-in-charge inside the CSL Store area etc. complete.					
a.	150mm dia----	2.00	m	XX	XX	XX
b.	125mm dia-----	2.00	m	XX	XX	XX
c.	100mm dia----	2.00	m	XX	XX	XX
d.	80mm dia-----	2.00	m	XX	XX	XX
84	Plugging GI / PVC pipe lines using suitable plugs / end caps after dismantling / cutting pipes etc, including all labour, earth work excavation up to 45 cm depth if required,cost of plugs/endcaps etc complete all as directed by the Engineer-in-charge.	5.00	nos	XX	XX	XX
85	Servicing of PVC / cast iron flushtanks excluding cost of fittings but including all labour and all incidental charges, all as directed by the Engineer-in-charge.	10.00	nos	XX	XX	XX
86	Servicing the valves of various sizes upto 150mm , replacing the damaged bolts and nuts, gland packing etc., painting the valve with synthetic enamel paint etc. complete.all as directed by the Engineer-in-charge.					
a.	C I valve up to 150 mm size	5.00	nos	XX	XX	XX
87	Servicing the hydrant valves , including replacing the damaged nuts and bolts, gland packing wherever necessary, synthetic enamel painting to the valve after servicing etc. complete all as directed by the Engineer-in-charge.	4.00	nos	XX	XX	XX
88	Conveying, threading, laying and jointing the following dia departmental G.I pipe in line with all specials including cutting and making good the walls, floors, trenching through all stratas to a maximum depth of 0.45m and refilling etc. complete, but excluding cost of cement, specials and pipes (which will be supplied departmentally free of cost) etc., all as directed by the Engineer-in-charge.					
a.	Pipes upto 25mm dia	10.00	m	XX	XX	XX
b.	above 32 mm and up to 50mm	5.00	m	XX	XX	XX
89	Clearing the chocking of outlet pipes / gully traps / urinals / wash basins etc in all the floors, including all incidental charges, dismantling, cleaning and refitting the waste pipes if necessary, all as directed by the Engineer-in-charge	10.00	nos	XX	XX	XX
90	Clearing the closet chocking without damaging to the closet as directed by the Engineer-in-charge.	10.00	nos	XX	XX	XX
91	Cleaning the pipe line and clearing the scum , sludge, floating objects etc. and disposing the same in pits which are already excavated at places pointed out by the Engineer-in-charge including backfilling the pit with the excavated earth without emitting foul smell etc. complete all as directed by the Engineer-in-charge.	15.00	m	XX	XX	XX
92	Cleaning of PVC make water storage tank (inside surface area) at all heights with brshues, duster etc., removal of silt, rubbish from the tank and cleaning the tank with fresh water disinfecting with bleaching powder @ 0.5gm per litre capacity of tank including marking the date of cleaning on the side of tank body with the help of paint and disposing of malba all complete as per direction of Engineer-in-Charge.	150,000.00	ltr	XX	XX	XX
93	Cleaning the Masonry / RCC overhead tank at various levels in various residential /office building by clearing all debris and moss etc. cleaning the side walls, floors and slab by wire brushing. The rate includes all labour charges, cost of fuel, hire for pump and tools etc. all as directed by the Engineer-in-charge.					
a)	Up to 10,000 litres capacity	2.00	nos	XX	XX	XX
94	Cleaning the septic tank / sullage tank by suction and clearing the scum & sludge using tankers, the sludge to be disposed outside shipyard area, including removing the cover slab and refixing the same in position and to be sealed using cement mortar, (including rate for loading,transporting and unloading),all lbour for sealing etc.complete,all as directed by the engineer in charge.but excluding cost of cement. Payment for quantity of sludge accumalated in septic tank, not for quantity carried out by tanker	5.00	m3	XX	XX	XX
95	Supplying and fixing the following water supply fittings approved by the Engineer-in-charge, including cost and conveyance of all materials, all labour for fitting, all other incidental charges etc. complete for all levels.					
a)	G.M /Brass full way wheel valve (ISI heavy type)					
(i)	25mm	3	Nos.	XX	XX	XX
(ii)	40mm	1	Nos.	XX	XX	XX
(iii)	50mm	1	Nos.	XX	XX	XX
b)	C.P. Brass/G.M. stop cock (heavy type)					
(i)	15mm	3	Nos.	XX	XX	XX
(ii)	20mm	2	Nos,	XX	XX	XX
c)	Taps / Valves etc.					
(i)	15mm C.P brass SDB tap (superior quality) 400g	1	Nos.	XX	XX	XX
(ii)	15mm CP hose tap (superior quality)	1	No	XX	XX	XX
(iii)	15mm CP push cock	5	Nos.	XX	XX	XX
(iv)	15mm C.P. Pillar tap (best quality)	1	Nos.	XX	XX	XX
(v)	15 mm CP long body tap	3	Nos	XX	XX	XX
(vi)	15 mm CP short body tap	15	Nos	XX	XX	XX

(vii)	15mm CP two way taps	10	Nos.	XX	XX	XX
(viii)	15/20 mm dia angle cock	5	Nos.	XX	XX	XX
(ix)	15mm PVC taps	1	Nos	XX	XX	XX
(x)	20 mm PVC Air releasing valve	1	Nos	XX	XX	XX
d)	<u>G.M / Brass float valve with polythene float. (ISI-Heavy type)</u>					
(i)	20mm dia	5	Nos	XX	XX	XX
(ii)	25mm dia	1	Nos	XX	XX	XX
(iii)	40mm dia	1	Nos	XX	XX	XX
(iv)	50mm dia	5	Nos	XX	XX	XX
e)	<u>G.M/ Brass non return check valve (Heavy horizontal/ vertical type)</u>					
(i)	100mm	1	No	XX	XX	XX
f)	<u>G.I Unions</u>					
(i)	25 mm	1	Nos	XX	XX	XX
(ii)	32mm	1	Nos	XX	XX	XX
(iii)	40mm	1	Nos	XX	XX	XX
(iv)	50mm	1	Nos	XX	XX	XX
g)	<u>G.I. Hexagonal nipples</u>					
(i)	15mm / 20mm & 25mm size	1	Nos	XX	XX	XX
(ii)	40mm & 50mm size	1	Nos	XX	XX	XX
h)	<u>Brass /CP Hexagonal nipples</u>					
(i)	15mm / 20mm size	1	Nos	XX	XX	XX
(ii)	25mm size	1	Nos	XX	XX	XX
(iii)	40mm & 50mm size	1	Nos	XX	XX	XX
i)	<u>G.I. elbows/ couplings /bends/Tees</u>					
(i)	15mm size	1	Nos	XX	XX	XX
(ii)	20mm / 25mm size	1	Nos	XX	XX	XX
(iii)	40mm size	1	Nos.	XX	XX	XX
(iv)	50mm size	1	Nos.	XX	XX	XX
j)	<u>CP extension pieces</u>					
(i)	15mm / 20mm size up to 100 mm long	1	Nos	XX	XX	XX
(ii)	25mm /32mm size up to 100 mm long	1	Nos.	XX	XX	XX
k)	<u>G.I. Reducers/reducing elbows</u>					
(i)	32 mm to 15mm	1	Nos.	XX	XX	XX
(ii)	50 mm to 32mm	1	Nos.	XX	XX	XX
l)	<u>SS gratings</u>					
(i)	75mm /100 mm size	3	Nos	XX	XX	XX
(ii)	125/150mm size	1	Nos	XX	XX	XX
m)	<u>C.P waste couplings</u>					
(i)	32mm	5	Nos.	XX	XX	XX
(ii)	40 mm / 50 mm	1	Nos	XX	XX	XX
n)	<u>PVC waste connections</u>					
(i)	32mm/40mm size	5	No	XX	XX	XX
p)	<u>PVC Foot valve</u>					
(i)	25mm / 32 mm size	1	Nos.	XX	XX	XX
(ii)	40 mm / 50 mm size	1	No	XX	XX	XX
q)	<u>Other items</u>					
(i)	15mm /20mm Brass hose collar	1	Nos.	XX	XX	XX
(ii)	40mm / 50mm GI hose collar	1	Nos.	XX	XX	XX
(iii)	C.P. cup for water line fittings of 15mm and 20mm dia	1	Nos	XX	XX	XX
(iv)	Standard Spreader for urinal basin	3	Nos	XX	XX	XX
(v)	PTMT water tank connector-up to 63mm	1	Nos	XX	XX	XX
(vi)	15mm C.P. brass adjustable shower rose- ordinary type	1	Nos	XX	XX	XX
(vii)	Shower arm 15mm/20mm dia	1	Nos	XX	XX	XX
(viii)	Hose clips for hoses up to 65mm dia hoses	1	Nos	XX	XX	XX
(ix)	CP Coat hooks	15	Nos	XX	XX	XX
(x)	CP Brass Toilet paper holder	1	Nos	XX	XX	XX
(xi)	C P Health faucet holder	1	Nos	XX	XX	XX
(xii)	PVC Shower with arm	1	Nos	XX	XX	XX
r)	<u>Brass ball valves</u>					
(i)	15 mm sizes	5	Nos	XX	XX	XX
(ii)	20 mm sizes	1	Nos	XX	XX	XX
(iii)	25 mm size	5	Nos	XX	XX	XX
(iv)	40 mm size	1	Nos	XX	XX	XX
(v)	50 mm size	5	Nos	XX	XX	XX
s)	<u>PVC Float v/v with polythene floats</u>					
(i)	15 mm size	1	Nos	XX	XX	XX
(ii)	20 mm size	1	Nos	XX	XX	XX
(iii)	25 mm size	3	Nos	XX	XX	XX
t)	<u>GI barrel nipple</u>					
(i)	Up to 25 mm size 15 cm long	1	Nos	XX	XX	XX
(ii)	40/50 mm size 15 cm long	1	Nos	XX	XX	XX
(iii)	Up to 25 mm size 30 cm long	1	Nos	XX	XX	XX
(iv)	40/50 mm size Up to 30 cm long	1	Nos	XX	XX	XX
96	Supplying and fixing / replacing approved quality and brand health faucet as per the direction of the Engineer-in-charge	10	Nos	XX	XX	XX
97	Supplying and fixing / replacing 15mm / 12 mm PVC inlet connection , as directed by the Engineer-in-charge.	1	Nos.	XX	XX	XX

98	Supplying and fixing the following size of approved brand (best quality) C.P concealed valve , including cost of all materials, labour charges etc. complete, all as directed by the Engineer-in-charge.					
a)	15mm	2	Nos.	XX	XX	XX
b)	20mm	1	No	XX	XX	XX
99	Supplying and fixing the following best quality fittings / specials for PVC flushing cistern after removing the existing, including cost of materials, labour charges, other incidentals etc. complete as per the direction of the Engineer-in-charge.					
a)	PVC syphon to suit the PVC flush tank	3	Nos.	XX	XX	XX
b)	PVC handle for PVC flush tank	3	Nos	XX	XX	XX
c)	PVC float valves for flush tanks	3	Nos	XX	XX	XX
d)	Syphon washer for PVC flush tank	3	Nos	XX	XX	XX
e)	Syphon set for cascade flush tank	3	Nos.	XX	XX	XX
100	Supplying and fixing of following size double flanged non rising type sluice valve conforming to IS:14846, class 125 with GM internals, including all labour, cost and conveyance of all materials, cost of bolts & nuts, gaskets, fixing other incidentals etc. complete all as directed by the Engineer-in-charge.					
a)	100 NB	1	Nos	XX	XX	XX
101	Supplying, threading, laying and jointing the following dia. ' B' class G.I pipes and specials such a tees, bends, elbows, checknuts etc. with clamps, plugs, screws etc. including cutting and making good the walls, RCC floors, slabs etc. trenching through all stratas to a maximum depth of 0.45m and refilling etc. complete all as directed by the Engineer-in-charge.					
a)	15NB	2.00	m	XX	XX	XX
b)	20NB	5.00	m	XX	XX	XX
c)	25NB	5.00	m	XX	XX	XX
d)	32NB	2.00	m	XX	XX	XX
e)	40NB	2.00	m	XX	XX	XX
f)	50NB	5.00	m	XX	XX	XX
102	Supplying, fixing, laying and jointing the following dia PVC pipes with pasted type joints of approved quality using solvent cement including all cost and conveyance of all materials, sundries etc. complete. The rate shall be inclusive of supplying and fixing necessary specials etc. as per the direction of the Engineer-in-charge. (Pipe pieces of length below 50cm used for leak rectification works will not be measured under this item).					
a)	20mm dia PVC pipe (10kg/cm2)	3.00	m	XX	XX	XX
b)	25mm dia (10kg/cm2)	3.00	m	XX	XX	XX
c)	32mm dia (10kg/cm2)	3.00	m	XX	XX	XX
d)	40mm dia (10kg/cm2)	3.00	m	XX	XX	XX
e)	50mm dia (10kg/cm2)	5.00	m	XX	XX	XX
f)	63mm dia (6kg/cm2)	5.00	m	XX	XX	XX
g)	75mm dia (6kg/cm2)	5.00	m	XX	XX	XX
103	Supplying, laying and jointing CPVC pipes of approved quality and brand for hot water line with suitable specials, including cost and conveyance of all materials, necessary specials, other incidentals etc. complete for all levels.					
a)	15 mm size	50.00	m	XX	XX	XX
b)	20 mm size	2.00	m	XX	XX	XX
a)	25 mm size	25.00	m	XX	XX	XX
b)	32 mm size	2.00	m	XX	XX	XX
b)	50 mm size	2.00	m	XX	XX	XX
104	Supplying and fixing ISI marked / best quality approved brand 110 mm PVC specials at all heights including cost and conveyance, all labour and all other incidentals etc. complete all as directed by the Engineer-in-charge.					
a)	Tees, door tees, bends etc.	2.00	Nos.	XX	XX	XX
b)	Adapters, reducers, offsets, vent cowl etc.	2.00	Nos.	XX	XX	XX
c)	Elbows, door elbows, reducer elbows,etc.	2.00	Nos.	XX	XX	XX
105	Supplying and fixing ISI marked / best quality approved brand 160 mm PVC specials at all heights including cost, conveyance, labour and all other incidentals etc. complete all as directed by the Engineer-in-charge.					
a)	Tees, door tees,bends etc.	1.00	Nos.	XX	XX	XX
b)	Adapters, reducers, offsets, vent cowl etc.	1.00	Nos.	XX	XX	XX
c)	Elbows, door elbows, reducer elbows,etc.	1.00	Nos.	XX	XX	XX
106	Supplying and fixing / replacing PVC balls for the following sizes of float valves (medium quality) including all cost of materials, labour charges, other sundries etc, complete all as directed by the Engineer-in-charge.					
a)	Balls for 15/20/32 mm size float valves	3.00	Nos.	XX	XX	XX
b)	Balls for or 40/50 mm size float valves	3.00	Nos.	XX	XX	XX
107	Supplying and fixing duroplastic seat with cover of approved make in position for European Water Closet, including cost and conveyance of materials, labour charges for dismantling and fitting, all other incidentals etc. complete.					
a)	Duroplastic seat with cover of White colour	5.00	No	XX	XX	XX
108	Supplying and fixing the approved quality and brand ISI marked high level / low level PVC flushing cistern 10 litre or nearest capacity, including cost of materials, labour charges, all other incidentals etc. complete as per the direction of the Engineer-in-charge.					
a)	White colour	3.00	Nos.	XX	XX	XX
109	Supplying and fixing approved branded ((Hindware/Paryware/RAK/Cera) quality and shade 550mmx 400mm or nearest size wash hand basins of glazed earthenware, with necessary brackets, one central single lever quarter turn pillar cock with foam flow, one central 15mm PVC connection, 1 no 15 mm CP stop cock , CP brass waste of standard patterns, 32mm PVC waste pipe, cutting and making good the walls, painting the brackets two coats including cost and conveyance of all materials, labour, other incidentals etc. complete.	1	Nos.	XX	XX	XX
110	Supplying and fixing the following dia approved quality PVC flexible hose including cost and conveyance of all materials, labour charges, all other sundries etc. complete as directed by the Engineer-in-charge.					
a)	25 mm	1.00	m	XX	XX	XX
b)	32 mm	1.00	m	XX	XX	XX

MISCELLANEOUS WORKS						
111	Replacing the damaged modular table lock arrangement including cost and conveyance of all materials, all labour etc complete.(payment is for each lock arrangement)	10.00	nos	XX	XX	XX
112	Supplying and fixing best quality and approved type Automatic Hydraulic door closers (medium) as per the instructions of the department personals including all cost of materials, labour charges etc. complete as directed by the Engineer-in-charge	10.00	Nos	XX	XX	XX
113	Servicing Automatic door closers once in one year or at call after repairs including cost and labour for replacement of defective parts if any etc. complete all as directed by the Engineer-in-charge.	10.00	Nos	XX	XX	XX
114	Painting with Coaltar Epoxy paint , after rubbing and cleaning the surface, mechanical buffing, wire brushing to the satisfaction of Engineer-in-charge, including cost and conveyance of all materials, labour, other incidentals etc. complete.					
a.	One coat Coaltar Epoxy paint	25.00	m ²	XX	XX	XX
b.	Succeeding coat	10.00	m ²	XX	XX	XX
115	Stopping water leakage through the cracks, gaps, leakages in AC sheet/G.I. Sheet/valley gutter/downwater pipes, at all heights by pasting Bostik flashband tape/Sika multiseal tape after cleaning the surface, making dustproof and making the surface moisture free, fixing tape, tying with binding wire in the case of downwater pipes including cost of all materials, labour, tools and other incidental charges etc. complete.					
a.	Upto 0.01 m2	5	m ²	XX	XX	XX
b.	Above 0.01 m2	10.00	m ²	XX	XX	XX
116	Cleaning the valley gutters/ eaves gutter including removing all debris within CSL premises without causing any damage to the gutter.	400.00	m	XX	XX	XX
117	Providing and applying fibre reinforced elastomeric liquid water proofing membrane with resilient acrylic polymers having Sun Reflectivity Index (SRI) of 105 on top of concrete roof in three coats @10.76 litre/ 10 sqm. One coat of self-priming of elastomeric waterproofing liquid (dilution with water in the ratio of 3:1) and two coats of undiluted elastomeric waterproofing liquid (dry film thickness of complete application/system not less than 500 microns). The operation shall be carried out after scrapping and properly cleaning the surface to remove loose particles with wire brushes, complete in all respect as per the direction of Engineer-in-Charge.	50.00	m ²	XX	XX	XX
118	Providing and fixing in position approved quality white glazed earthenware flat back lipped front urinal 265 x 315 x 440mm or nearest size having a 15mm PVC connection, 32mm or nearest dia PVC waste connection and 1 no CP spreader connected to waterline and 15mm brass push cock, cutting and making good the walls and floors, including cost and conveyance of all materials, screws, plugs, labour, other incidentals, etc. complete. All PVC items are to be heavy duty type.	2	Nos.	XX	XX	XX
119	Supplying and fixing 690 x 165 x 325mm size or nearest size porcelain urinal division plate of approved quality and colour as directed by the Engineer-in-charge.	3	Nos.	XX	XX	XX
Total Amount				XX		XX
Total Amount including GST				XX		

Job Completion Period : 01 year

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Rules for engaging contractor's workmen in CSL-MSRU

- I) The following labour statutory compliance measures should be followed by contractors working in CSL Mumbai Ship Repair Unit;
 - 1. If the contractor is engaging 10 or above contract workmen, their firm must have independent establishment registration under EPF.
 - 2. If the contractor is engaging 10 or above contract workmen, their firm must have independent establishment registration under ESI.
 - 3. If the contractor is engaging less than 10 contract workmen and they are exempted under ESI/EPF, their workmen should be covered under Employee Compensation policy.
 - 4. The wage payment for workers should be disbursed through bank payment only and contractor have to submit monthly Challan for ESI Remittance ,EPF Remittance and bank statement of wage disbursement along with their monthly bills.
 - 5. If the contractor is engaging 20 or above contract workmen, they should take the Labour Licence under Contract Labour Contract Act.
- II) The contractor is solely responsible for complying ESI & EPF rules for contract workmen engaged by them for the work.
- III) It is mandatory to submit police clearance from Mumbai Police station to issue gate entry pass. Hence all the workmen belong to other states shall have to take police clearance from their respective home station to submit application form for obtaining police clearance from Mumbai Police Station.
- IV) Employee/worker deputed for the work shall not be over 58 Years of age.

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Specific Terms & Conditions

Enq no: MP1/ARC/CIVILWORKS/23-24/CMSRU

1. Payment – 100% payment shall be released against invoice certified by Executing officer supported by service report and WCC and other mandatory documents, on monthly basis within 30 days from the date of submission of invoice.
2. Guarantee – Minimum 06 months guarantee is required for the repaired/overhauled equipment/system and 12 months guarantee is required for renewed equipment / system. In case of Guarantee defects, it shall be attended within 48 hours from the date of intimation.
3. Performance Bank Guarantee (PBG): The successful vendor has to submit a PBG as per CSL format for an amount of **3% of the order value** (excluding taxes & duties) from a Nationalized or Scheduled Indian Bank, towards enforcement of agreed performance guarantee as per the Guarantee clause. The PBG Shall be submitted immediately after completing the job scope and shall be valid to cover the guarantee period indicated at guarantee clause plus a grace period of 90 days.
4. Manpower has to be mobilized against CMSRU LOI/WO and work has to be commenced immediately as per the instruction of executing officer.
5. Vendors are strongly advised to visit work site prior to quoting.
6. Vendors should be able to carry out and complete the work at CMSRU yard, Mumbai and all the necessary passes to be arranged accordingly by the vendor
7. Any loose items, if needed, shall be delivered at CMSRU(MbPT) on door delivery basis to Hughes Dry Dock (Indira Docks), Mumbai Port Trust, Mazagon, Mumbai.
8. Entire job scope to be completed within 01 Year from the date of issuing PO/ LOI.
9. CMSRU reserves the full right to change the work scope/amend the work scope according to the site condition
10. CMSRU reserve the right to offload the job to more than one subcontractor (parallel contract) to meet the schedule against this tender.
11. CMSRU have the full right to modify (Deletion) the work scope in line with the final requirement, time lines of repair project, availability and spares.
12. CMSRU will place composite work order against this tender which includes the cost of material as well as service.
13. **Tender shall be processed on overall L1 basis; however final decision shall be under CMSRU.**
14. The firm has to provide detailed price split up (if required) within 03 days from the date of confirmation from CMSRU.
15. Firm to provide necessary valid certificates (wherever required).
16. Firms should have related similar experiences as per the work scope mentioned and the supporting documents as a proof to match the work experiences shall be submitted to CMSRU, if requested.

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17. CSL/CMSRU has the full right to withdraw the tender in partial or full during the course of this tender without giving any prior notice / clarifications to vendors.
18. CSL/CMSRU has the right to accept or reject any or all of the offers.
19. Vendors are requested to submit the bid in the attached price bid format **(in Two Bid)** for avoiding discrepancies/confusions during the comparison stage.
20. Vendors are requested to submit a signed copy of Encl. 1, 2, 3, 4, 5, 6, 7, 8, 9,10 along with **unpriced bid format** clearly indicating **quoted/not quoted** against each job scope with the **Tech. bid** for verification.
21. All documents submitted against this tender shall be signed and sealed by authorized persons and the compliance matrix shall be submitted in the company letter head of the vendor. Otherwise it may be rejected without prior notice.
22. All tools and tackles for successful completion of the job shall be arranged by the contractor.
23. Contractor shall abide by the CSL safety rules.
24. All consumables for the job shall be in the scope of vendor.
25. Job completion period has to be mentioned in the unpriced priced bid format.
26. All Material passes and Man entry Passes to be arranged by contractor. Required authorization letter only will be issued from CMSRU.
27. If any in way jobs to accomplish the work has to be done either in CMSRU premises / outside, vendor had to take the fully responsibility and expenses for the arrangements such as transportation, loading, unloading, workshop arrangements if needed.
28. Forward offers and communications from mail IDs starting with words as highlighted in below message, since the message will be blocked and may not necessarily reach the indented ID, as indicated in below.

info
support
admin
sales
customersupport
helpdesk
mail
mailadmin
billing
hello
careers

29. Safety Measures that are to be ensured by contractors are:

- 1.Db IP44 type with ELCB
- 2.Blower with guard on both side
- 3.24-volt lamp with wire and DB
- 4.Flash back and non-return valve for Cylinder (DA and Oxygen is allowed)
- 5.welding machine with ELCB of 30 mA to provided
- 6.Power tools like Grinding Machine should have handle and guard

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7. Proper PPEs need to be provided by the contractor to workers

8. Induction class need to be attended by the new workers

SPECIAL CONDITIONS- CIVIL WORKS

1. This is the 'special condition' in addition to the conditions General conditions, Materials manual and all other conditions specified in the tender itself.
2. All works are to be done on existing Buildings, all precautions shall be taken to see that minimum disturbance is caused to the normal functioning of offices inside those Buildings. The contractor/vendor shall not cause any obstruction in the building premises and the roads while storing/keeping the materials/tools/equipment. All care shall be taken to keep the premises clean without dumping any debris as far as possible.
3. The contractor/vendor shall provide green shade nets all around in the executing site to prevent dust pollution to nearby working/office areas at no extra cost. The contractor/vendor shall take into consideration the above aspect while quoting for the work.
4. While undertaking the work extra care shall be taken to prevent any leakage of cement slurry/rain water or falling of dismantled materials etc. Necessary protective arrangements as approved by the Engineer-in charge shall be provided for this by the contractor/vendor at his own cost.
5. The vendor/contractor has to attend the work within 48 hours of the intimation from the engineer in charge.
6. Time period of work will be 1 year from the date of award of work. However, CMSRU has right to terminate the contract within the period, if the services are found not satisfactory.
7. Quantity: The quantities shown in the tender are approximate only. The quantities shown under the Contract are just to give an idea to the bidders about the likely volume of works

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and not guaranteed to be executed by CMSRU. Bidders shall not be entitled to any compensation on account of variation (Plus or Minus) in the quantity of works ordered under this Contract.

8. Payment: Payment will be based on actual executed quantity and finalized rates.
9. The Item rate contract will remain in force for the purpose of completion of all works ordered during the currency of the Rate Contract until they have been completed.
10. Vendor have to supervise the work or have to assign any supervisor who having qualification of diploma in civil engineering from any reputed collages or supervisors who have experience in the Construction/building maintenance for five years minimum. The proof of documents /certificates should submit to the engineer in charge before engaging to the work.
11. Waste materials are to be cleared from site on a day-to-day basis. Each area of working is to be cordoned off with necessary signboards and barriers to ensure safe transportation of men and material in CMSRU as directed by the Engineer-in-charge.
12. CMSRU reserves the right to delete any part of the work from the scope of the contract or cancel the tender completely, without assigning any reason.
13. The rates quoted by the contractor/vendor shall be for the finished items of work including supplying appropriate materials, labour, scaffolding, equipment/tools, conveyance, unloading, handling, storing, etc all complete, unless specified otherwise in the tender schedule.
14. The tenderers are expected to have inspected the site, acquaint themselves with site conditions, labour situation, wage and benefits applicable to labourers, working hours, pass rules, safety rules, out turn of work by labour and the fluctuations which are likely to happen till the work is completed before quoting.

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15. This tender is an item rate (unless otherwise specifically mentioned) and the rates should be correct, workable and self supporting. Detailed analysis of rates shall be given if demanded by CMSRU and shall not be bound to accept the contractor/vendor"s analysis.
16. Discrepancy or omissions if any found in the tender schedule shall brought to the notice of the Tender Inviting Authority before offering the price bids for clarifications. Any errors in description or quantity in the tender schedule or any omission in drawings or layout etc shall be brought to the notice of the Engineer-in-charge immediately after the issue of detailed designs and drawings for the final decision.
17. For inspecting the work site, the contractor/vendor/ his authorized representative shall produce Govt approved photo identity proof for issue of entry pass.
18. The contractor/vendor shall give a list of employees working in CMSRU related to him at any time when required by Engineer in charge.
19. In case, rates offered by the bidder for items are unrealistic, such tender will be considered as unbalanced and if the bidder is unable to provide satisfactory explanation, such tender is liable to be disqualified and rejected.
20. On acceptance of the tender, contractor/vendor or contractor/vendors representatives (with valid authorisation) is required to report to the Engineer-in-charge for receiving instructions.
21. Market Rate shall be the rate as decided by the Engineer-in-Charge on the basis of the cost of materials and labour at the site where the work is to be executed plus the percentage to cover all overheads and profits.
22. The work to be carried out under the Contract shall, except as otherwise provided in these conditions, include all labour, materials, tools, plants, equipment and transport which may be required in preparation of and for and in the full and entire execution and completion of the works. The descriptions given in the Schedule of Quantities shall, unless otherwise
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stated, be held to include wastage on materials, carriage and cartage, carrying and return of empties, hoisting, setting, fitting and fixing in position and all other labours necessary in and for the full and entire execution and completion of the work as aforesaid in accordance with good practice and recognized principles.

23. In the case of discrepancy between the schedule of Quantities, the Specifications and/or the Drawings, the following order of shall prevail:-

- (i) Description of items in Tender Schedule.
- (ii) Particular Specification and Special Condition, if any.
- (iii) Indian Standard Specifications of B.I.S.
- (iv) Drawings.
- (v) CPWD specifications

24. If there are varying or conflicting provisions made in any one document forming part of the contract, the Accepting Authority shall be the deciding authority with regard to the intention of the document and his decision shall be final and binding on the contractor/vendor.

25. In order to keep the contract live provisional extension will be given without prejudice to any other right or remedy of CMSRU and this will not relieve in any form to the contractor/vendor from paying compensation for delay. If the contractor/vendor delayed the work, the Engineer-in-charge will be at liberty to withhold proportionate amount of compensation from the bills of the contractor/vendor. This will be done automatically and no notices will be issued by CMSRU.

26. Engineer-in –Charge shall have powers to impose compensation for delay for completing the work not in accordance with the time allowed in the contract after giving a notice in writing to the contractor/vendor and to take possession of the work and the site. In the case of tools, plant, materials or stores kept in the premises of work site, the Engineer-in-
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Charge may direct the Contractor/vendor to remove them from the site and in the event of the contractor/vendor failing to comply with the directions of Engineer-in- Charge, he may remove and/or dispose them at the contractor/vendor"s risk and expense and such action shall be conclusive against the contractor/vendor.

27. All measurements and levels shall be taken jointly by the Engineer-in-Charge or his authorized representative and by the contractor/vendor or his authorized representative from time to time during the progress of the work and such measurements shall be signed and dated by the Engineer- in-Charge and the contractor/vendor or their representatives in token of their acceptance . If the contractor/vendor objects to any of the measurements recorded, a note shall be made to that effect with reason and signed by both the parties. If for any reason the contractor/vendor or his authorized representative is not available and the work of recording measurements is suspended by the Engineer-in-Charge or his representative, the Engineer-in-Charge and the Department shall not entertain any claim from contractor/vendor for any loss or damages on this account. If the contractor/vendor or his authorized representative does not remain present at the time of such measurements after the contractor/vendor or his authorized representative has been given a notice in writing three (3) days in advance or fails to countersign or to record objection within a week from the date of the measurement, then such measurements recorded in his absence by the Engineer-in-Charge or his representative shall be deemed to be accepted by the Contractor/vendor.

28. Engineer-in-Charge shall, except as otherwise provided, ascertain and determine the value of work done, by measurement in accordance with the contract. All measurements of items having financial value shall be entered by the contractor/vendor and compiled in the shape of the Computerized Measurement Book having pages of A-4 size as per the format of the department so that a complete record is obtained of all the items of works
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performed under the contract. All such measurements and levels recorded by the contractor/vendor or his authorized representative from time to time, during the progress of the work, shall be got checked by the contractor/vendor from the Engineer-in-Charge or his authorized representative as per interval or program fixed in consultation with Engineer-in-Charge or his authorized representative. After the necessary corrections made by the Engineer-in-Charge, the measurement sheets shall be returned to the contractor/vendor for incorporating the corrections and for resubmission to the Engineer-in-Charge for the dated signatures by the Engineer-in-Charge and the contractor/vendor or their representatives in token of their acceptance.

29. Whenever bill is due for payment, the contractor/vendor would initially submit draft computerized measurement sheets and these measurements would be got checked/test checked from the Engineer-in-Charge and/or his authorized representative. The contractor/vendor will, thereafter, incorporate such changes as may be done during these checks/test checks in his draft computerized measurements, and submit to the department a computerized measurement book, duly bound, and with its pages machine numbered. The Engineer-in-Charge and/or his authorized representative would thereafter check this MB, and record the necessary certificates for their checks/test checks.

The final, fair, computerized measurement book given by the contractor/vendor, duly bound, with its pages machine numbered, should be 100% correct, and no cutting or over-writing in the measurements would thereafter be allowed. If at all any error is noticed, it shall be signed and sealed by the contractor/vendor and the Engineer-in-charge. Thereafter, the MB shall be allotted a number as per the Register of Computerised MBs. This should be done before the corresponding bill is submitted for payment. The contractor/vendor shall also submit to the department separately his computerized abstract of Cost and the bill based on these measurements, duly bound, and its pages

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machine numbered. Thereafter, this bill will be processed and allotted a number as per the computerized record in the same way as done for the measurement book meant for measurements.

30. The contractor/vendor shall, without extra charge, provide all assistance with every appliance, labour and other things necessary for checking of measurements/levels by the Engineer-in- Charge or his representative.
31. Except where any general or detailed description of the work expressly shows to the contrary, measurements shall be taken in accordance with the procedure set forth in the specifications notwithstanding any provision in the relevant Standard Method of measurement or any general or local custom or standard Engineering practice. In the case of items which are not covered by specifications, measurements shall be taken in accordance with the relevant standard method of measurement issued by the Bureau of Indian Standards and if for any item no such standard is available then a mutually agreed method shall be followed.
32. Within seven days of the completion of the work, the contractor/vendor shall give notice of such completion to the Engineer-in-Charge and the Engineer-in-Charge shall inspect the work and if there is no defect in the work, shall furnish the contractor/vendor with a final certificate of completion, otherwise a provisional certificate of physical completion indicating defects (a) to be rectified by the contractor/vendor and/or (b) for which payment will be made at reduced rates, shall be issued. But no final certificate of completion shall be issued, nor shall the work be considered to be complete until the contractor/vendor shall have removed from the premises on which the work shall be executed all scaffolding, surplus materials, rubbish and sanitary arrangements required for his/their work people on the site in connection with the execution of the works as shall have been erected or constructed by the contractor/vendor and cleaned off the dirt from
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all wood work, doors, windows, walls, floor or other parts of the building, in, upon, or about which the work is to be executed or of which he may have had possession for the purpose of the execution. If the contractor/vendor fails to do, then the Engineer-in-Charge may at the expense of the contractor/vendor remove such scaffolding, surplus materials and rubbish etc., and dispose of the same as he thinks fit and clean off such dirt as aforesaid, and the contractor/vendor shall have no claim in respect of the above items and cost of removal and disposal will be recovered from the contractor/vendor.

33. The contractor/vendor shall, at his own expense, provide all materials, required for the works other than which are stipulated to be supplied by the CMSRU. The contractor/vendor shall, at his own expense and without delay, supply to the Engineer-in-Charge samples of materials to be used on the work and shall get these approved in advance. All such materials to be provided by the Contractor/vendor shall be in conformity with the specifications laid down or referred to in the contract. The contractor/vendor shall, if requested by the Engineer-in-Charge furnish proof, to the satisfaction of the Engineer-in-Charge that the materials so comply. If samples are not approved, the Contractor/vendor shall forthwith arrange to supply to the Engineer-in-Charge for his approval, fresh samples complying with the specifications laid down in the contract. When materials are required to be tested in accordance with specifications, approval of the Engineer-in-Charge shall be issued after the test results are received. The Contractor/vendor shall at his risk and cost submit the samples of materials to be tested or analysed and shall not make use of or incorporate in the work any materials represented by the samples until the required tests or analysis have been made and materials finally accepted by the Engineer-in-Charge. The Contractor/vendor shall not be eligible for any claim or compensation either arising out of any delay in the work or due to any corrective measures required to be taken on account of and as a result of testing of materials. The
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contractor/vendor shall, at his risk and cost, make all arrangements and shall provide all facilities as the Engineer-in-Charge may require for collecting, and preparing the required number of samples for such tests at such time and to such place or places as may be directed by the Engineer-in-Charge. The Engineer-in-Charge or his authorized representative shall at all times have access to the works and to all workshops and places where work is being prepared or from where materials, manufactured articles or machinery are being obtained for the works and the contractor/vendor shall afford every facility and every assistance in obtaining the right to such access.

34. The Engineer-in-Charge shall have full powers to remove any material which is not meeting the standards as per the tender and will not be accountable for any loss or damage happening during the removal.
35. If after submission of the tender, any change in the material in item specification as per the pre approval from competent authority from CMSRU, the difference in base price along with applicable taxes and CP will be adjusted based on actual purchase invoice subject to any such variations shall be effected only for stipulated period of Contract including the justified period extended.
36. The contractor/vendor shall treat all materials obtained during dismantling of a structure, excavation of the site for a work, etc. as CMSRU's property and such materials shall be disposed off to the best advantage of CMSRU according to the instructions issued by the Engineer-in-Charge.
37. All works under or in course of execution or executed in pursuance of the contract, shall at all times be open and accessible to the inspection and supervision of the Engineer-In-charge, his authorized subordinates in charge of the work and all the superior officers, or any organization engaged by the CMSRU for Quality Assurance and of the Chief Technical Examiner's Office, and the contractor/vendor shall, at all times, during the usual working
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hours and at all other times at which reasonable notice of the visit of such officers has been given to the contractor/vendor, either himself be present to receive orders and instructions or have a responsible agent duly accredited in writing, present for that purpose. Orders given to the Contractor/vendor's agent shall be considered to have the same force as if they had been given to the contractor/vendor himself.

If it shall appear to the Engineer-in-charge or his authorized subordinates in charge of the work or the officers of the organization engaged by the CMSRU for Quality Assurance or to the Chief Technical Examiner or his subordinate officers, that any work has been executed with unsound, imperfect, or unskilful workmanship, or with materials or articles which are unsound or of a quality inferior to that contracted or otherwise not in accordance with the contract, the contractor/vendor shall, on demand in writing which shall be made within the defect liability period of the work from the Engineer-in-Charge specifying the work, materials or articles complained of notwithstanding that the same may have been passed, certified and paid for, forthwith rectify or remove and reconstruct the work so specified in whole or in part, as the case may require or as the case may be, remove the materials or articles so specified and provide other proper and suitable materials or articles at his own charge and cost. In the event of the failing to do so within a period specified by the Engineer-in-Charge in his demand aforesaid, then the contractor/vendor shall be liable to pay compensation at the same rate as under clause of the contract (for noncompletion of the work in time) for this default.

In such case the Engineer-in-Charge may not accept the item of work at the rates applicable under the contract but may accept such items at reduced rates as the authority may consider reasonable during the preparation of running or final bill if the item is so acceptable without detriment to the safety and utility of the item and the structure or he may reject the work outright without any payment and/or get it and other connected and
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incidental items rectified, or removed and re-executed. Decision of the Engineer-in-Charge to be conveyed in writing in respect of the same will be final and binding on the contractor/vendor.

38. The contractor/vendor shall be responsible for all the defect and deficiencies except the usual wear and tear till the expiry of the defect liability period. Contractor/vendor shall repair or rectify or replace all defect and deficiencies reported by the Engineer-in-charge within 2 weeks at the cost of the contractor/vendor. In the event of failure the Engineer-in-charge shall be entitled to get the same repair or rectified or replaced at the contractor/vendors cost along with an amount equal to 20% of such cost as damages shall also be recoverable from the contractor/vendor. The defect liability period shall be deemed to be extended till the identified defects are rectified. The contractor/vendor shall not account expiry of the agreement or the defect liability period assigned any outstanding benefit like extended guarantee from the manufactures to the Engineerin-charge.
39. The contractor/vendor shall provide at his own cost all materials (except such special materials, if any, as may in accordance with the contract be supplied from the Engineer-in-Charge"s stores), machinery, tools & plants as required for the satisfactory completion of works. In addition to this, appliances, implements, other plants, ladders, cordage, tackle, scaffolding and temporary works required for the proper execution of the work, whether original, altered or substituted and whether included in the specifications or other documents forming part of the contract or referred to in these conditions or not, or which may be necessary for the purpose of satisfying or complying with the requirements of the Engineer-in-Charge as to any matter as to which under these conditions he is entitled to be satisfied, or which he is entitled to require together with carriage therefore to and from the work. The contractor/vendor shall also supply without charge the requisite number of persons with the means and materials, necessary for the purpose of setting out works, and
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counting, weighing and assisting the measurement for examination at any time and from time to time of the work or materials. Failing to do so, it shall be arranged by the Engineer-in-Charge at the expense of the contractor/vendor and the expenses may be deducted, from any money due to the contractor/vendor, under this contract or otherwise and/or from his security deposit.

40. The contractor/vendor shall make his/their own arrangements for water required for the work unless otherwise specified and nothing extra will be paid for the same. This will be subject to the following conditions.

(i) The water used by the contractor/vendor shall be fit for construction purposes to the satisfaction of the Engineer-in-Charge.

(ii) The Engineer-in-Charge shall make alternative arrangements for supply of water at the risk and cost of contractor/vendor if the arrangements made by the contractor/vendor for procurement of water are, in the opinion of the Engineer-in-Charge, unsatisfactory. If water is issued free of cost by CMSRU, will be subject to the following conditions.

(i) The contractor/vendor shall make his/their own arrangement of water connection and laying of pipelines from existing main of source of supply.

(ii) The CMSRU do not guarantee to maintain uninterrupted supply of water and it will be incumbent on the contractor/vendor to make alternative arrangements for water at his/their own cost in the event of any temporary break down in the water main so that the progress of his/their work is not held up for want of water. No claim of damage or refund of water charges will be entertained on account of such break down.

(iii) Contractor/vendor shall take water in a such a way that the activities of CMSRU are not affected. He will also be responsible for the damage and abnormal repairs arising out of his use, the cost of which shall be recoverable from the contractor/vendor. The Engineer-in-Charge shall be the final authority to determine the cost recoverable from the
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contractor/vendor on this account and his decision shall be final and binding on the contractor/vendor.

41. The contractor/vendor shall arrange at his own expense all tools, plant, machinery and equipment (hereinafter referred to as T&P) required for execution of the work except for the Plant & Machinery shown as departmental free issue unless otherwise specified. The services of the operating staff as required will also be provided along with the machinery specified in the tender.
42. The tenderers shall have to sign in each page of the “special condition-civil works” documents with official stamp as a token of his acceptance of the conditions stated therein.

LIST OF APPROVED BRAND / MAKE

Cement	: Ultratech,Ambuja,Dalmia,Zuari,Coromandel
Vitrified/Ceramic Tiles	: Kajaria,Johnson,Somany
Mirror /Glass	: Saint Gobain,Modiguard,Asahi
Mortice Lock/Handle	: Godrej,Puma
Aluminium Section	: JSW,Hindalco,Indal
GI sections	: Everest,India gypsum or equivalent
Aluminium Sheet	: Hindalco Ever Last, JSW,TATA Durashine
Plumbing Fixtures	: Jaguare,Cera,Parryware,Hindware,RAK
Primer/Emulsion/Synthetic enamel/Wall Putty	: Berger,Shalimar,Asianpaints,Nerolac,Jotun,JK,MRF
PVC Pipes and specials	: Suprme,Finolex,Hycount
Reinforcement steel	: SAIL,TATA,VIZAG,JSW
Structural Steet	: SAIL,TATA,VIZAG,JSW

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Welding Rod	: Advani, Essab, ador, Modi .
Ceiling board/Accessories	: Aerolite,Amstrong,Indiagypsum
Tinted sun film for glass	: Gareware,3M or equivalent
MS pipe ,Square section	: TATA,JSW or equivalent
Polycarbonate sheet	: Excelite,Lexan,Durotuff
Self-tapping screw	: Corro shield or equivalent
Sanitary Fittings	: Hindware,Parryware,Cera,Jagguar
Coat hook/Towel rod	: Cera,Hindware,Parryware,
Pavement Tile	: Planet Green, Stabil, Amcon
Door closer	: DormaXL-C-1000, OzoneNSK-580, Hafele
Floor Spring	: Ozone, Hafele , Dorma
Glass Door handle	: Ozone,Shivalik
Glass door lock	: Dorma, Ozone, Hafele

SAFETY CODE FOR CONTRACTORS/VENDORS

GENERAL SAFETY RULES

1. These safety rules have been promulgated for the guidance of the contractor/vendor. These rules in no way relieve a contractor/vendor from his obligation under various statutory rules and regulations.
2. The contractor/vendor before stating any work in the CMSRU premises will be issued with these rules and he is expected to give a declaration that he receives one copy of the CMSRU Safety Rules for contractor/vendors and will comply with the rules laid therein.

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3. CMSRU reserves its right to suspend work in the event of the contractor/vendor not complying with rules of instructions with regarding to Safety practices for which no claim of any kind will be entertained.
4. To ensure the safe conduct of safety operation a representative of the contractor/vendor should maintain appropriate contact with office-in-charge of the work as may be necessary to acquaint himself with any changed conditions of other matters relating to the safety performance.
5. All regulations code and ordinance of the Government of India, Government of Maharashtra and local Municipal, Corporation regarding safety will be applicable to the contractor/vendor.
6. The principal contractor/vendor is responsible for observance of these rules by his sub-contractor/vendors. Only employees acceptable to CMSRU should not employed for the operation of any type of equipments. Contractor/vendors employees should not enter the areas where the nature of contracted work does not require their presence.
7. All accident occurring to contractor/vendors personal must be reported promptly and immediately by the contractor/vendor or his agent to the safety officer (Indl. Relations) in additional to the officer-in-charge of the work and this should be followed by an incident-accident report in the form prescribed by the company. In the case of electrical accidents, report should be made in accordance with Rule 44 Annexure of Indian Electricity Rules 1956 and the form shall be in accordance with Annexure XIII to the Indian Electricity Rule 1956. The report should be furnished to the resident Electrical Engineer within 8 hours of occurrence of electrical accident immediately on occurrence of electrical accident, the operator in the electrical incharge should be informed on the phone and necessary instruction taken from him.
8. a) The Contractor/vendor should ensure that they are complying with all the regulations under the Indian Electricity Act and relevant rules when they consume electricity.
b) All power cables used shall be armoured cables.

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- c) HRC fuses should be used in all fuse/switch fuse units.
 - d) Double earthing shall be provided for all equipments, switch boards, etc.
 - e) Overhead power lines are to be restricted to the minimum possible and should be attached to a GI. Guy wire by means real insulations.
 - f) No wire carrying electrical current is to be laid on working floors areas.
 - g) Surplus wire kept bundled at the end of supply line shall be neatly done and secured properly.
 - h) Earthing points should not be extended by looping.
 - i) Electrical insulations, wiring etc. are to be got done only through a licensed electrical contractor/vendor holding valid license issued by the electrical inspector of Maharashtra.
9. Electric switches or circuits, unless wholly owned solely used by the contractor/vendor should not be opened or closed unless authorized by the Officer-in-charge of CMSRU.
10. The storage, handling and use of hazardous materials must be approved by the Safety Officer.
11. The Contractor/vendor should be responsible for the cleanliness of the job site.
12. The Contractor/vendors should take precautions to prevent tripping hazards caused by hoses and welding lines etc.
13. The contractor/vendor should ensure that adequate fire extinguishing arrangements are provided for their equipments.
14. Contractor/vendor's workmen should obey all signs and special rules regarding smoking and fire prevention.
15. In the event of fire the contactors should notify to the Inspector, CISF, and Safety Officer, at once giving the exact location and nature of fire. At the same time he should start operations to extinguish or control the fire until assistance arrives.
16. Where property is exposed to the hazards of fire, open fires will not be permitted.

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17. Gas or oil fired heaters must not be placed close to an inflammable material. Their burners must be adjusted and maintained so that there is no risk of accidental fire nor of the omission or smoke or fumes.
18. Inflammable liquids must be handled in safe cans or containers approved by CMSRU and shall be stored, in the locations acceptable to CMSRU. All such containers must be clearly labeled.
19. Tarpaulin used should be of flame proof type.
20. The area beneath overhead work should be "roped off and signs" Danger-Man working above should be placed to warn the men moving below.
21. Excavation should be protected by adequate covering and visible warning lights should be placed both during day and night to warn approaching traffic. Precautions should be taken to prevent "cave-ins": of the excavations.
22. Proper and adequate timber shoring and bracing should be provided to prevent sliding or slipping of loose or unstable soil, rock or other materials.
23. Under cuttings of trenches and other excavations should be avoided.
24. Excavated materials should be put away from the edges of the excavated trench to avoid slipping of the excavated materials into the trench.
25. The contractor/vendors working in man holes or pits below the ground level must acquaint himself and advise his employees of the hazards of gas or liquid level and take proper precautions.
26. Open manholes must be protected by adequate barricade, Man hole covers should be replaced promptly when work is suspended.
27. Only qualified employees under the supervision of a qualified supervisor should be allowed to use oxy-acetylene equipment.
28. Cylinders should be secured in upright position.
29. Electric welding should be done only by qualified welders under the supervision of
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qualified supervisor.

30. Welder should use adequate personal protective equipments while working.

31. Arc welding should be done only after shielding the location.

32. Arc welding equipments should be properly earthed. While welding it should be ensured that no equipment forms part of the ground return.

33. Contractor/vendors should ensure that First Aid boxes are provided at work spot and should ensure proper medical care of injured persons.

34. Contractor/vendors should ensure that all the employees are equipped with proper protective equipments for the work they are entrusted with.

35. All the employees of the contractor/vendors should wear approved safety helmets depending on the work they are engaged in.

36. When the contractor/vendor"s employees are exposed to the movement of cranes, the Contractor/vendor" supervisor should consult with the Officer-in-charge before sending his men on the job.

37. When the contractor/vendor"s employees are exposed to the movement of crane he should provide watchmen for the protection to his employees.

38. Only qualified and authorised employees should be allowed to operate the mobile cranes and other hoisting equipments.

39. Only qualified and authorised persons should be allowed to drive the vehicle in the yard.

40. All traffic rules, signs and speed limits must be observed by all the employees of the contractor/vendor.

41. Contractor/vendors should not park their vehicle in such a way be a hindrance to the smooth flow of traffic in the yard.

42. While working at heights adequate scaffolding or staging should be used.

43. While working at heights the workman should wear safety belts with adequate life lines.

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44. Scaffoldings should be of a sound material securely fastened and should be capable of supporting 4 times the combined weight of men and material who may be working on them.
45. Wooden planks used in scaffoldings should not be less than 10" wide, 2" thick should not extend beyond the outer supports by more than 12" nor less than 6".
46. Guarding and the boards should be installed in all scaffolding which are 10" or more in height.
47. Workmen in charge of working squad are responsible for the safe loading and use of ropes, chains, cables slings, jacks, skids and other hoisting and lifting apparatus. In no case such equipments should be used unless and until the man in charge is satisfied that it is free from defects and are safe for use.
48. The Operator should stop immediately all operation on receiving signals from any one.
49. No workman should move near the cable under tension and within the angle formed by the ropes or cables.
50. When anyone is found in the danger zone the Hoist operator should never place tension on rope or cable.
51. Care must be taken to see that cable chains and other hoisting equipments are not unduly stressed by improper use.
52. All ropes, cables, chains, slings, etc. should be discarded when they were worn out or deteriorated to the point where their safe use may be doubtful.
53. Chains and wire ropes should not be spliced or joined.
54. New links should be inserted by competent persons.
55. Wire ropes or cables should not be allowed to kink.
56. When applying U. Bolts and clips to cables, adequate number should be used.

57. Hooks, rings and other fittings used on chains or cables should be of the carrying capacity higher than that of the chain or cable.

58. Natural and synthetic fiber ropes should be properly cared and the following precautions should be taken.

a) Rope should not pass over sharp edges, pads should be used to protect the fibres.

b) Rope should not be dragged on the ground unnecessarily using too small sheaves, should be avoided.

c) Rope should not be permitted to slip on which drum or moving drums.

d) Kinked ropes should not be used.

e) Do not tie knots where splices should be used.

f) Ropes should not be allowed to soak in oil and exposed to acid or other corrosive substances, they should wash and dried.

g) Rope should not be allowed to expose to weather unnecessarily.

h) When drying excessive heat should not be used.

59. Adequate precautions should be taken during welding or gas cutting against hazards such as electric shocks, burns, fumes fires, explosion and arc eyes.

60. Gauntlet gloves should be worn while or gas cutting.

61. Outer cloth worn should be free from oil or grease.

62. Goggles or welder's helmets should be worn during welding.

63. Barriers should be erected to protect other persons in the vicinity from rays or electric arcs or welding flames.

64. Goggles should be worn while chipping the welding slag.

65. Adequate ventilation should be provided while welding or cutting in confined spaces.

66. When welding or gas cutting in elevated positions, precautions should be taken to prevent sparks of hot metal slag falling out to the people or to the flammable material below.

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67. Before welding or cutting a pipe, tank or container, which carried flammable material, it should be thoroughly cleaned and gas freed and if necessary, 'Hot Work Certificate' from the Controller of Explosive should be obtained.

68. Loitering around operating units is prohibited at all times.

69. Bringing intoxicants into the yard is strictly forbidden. Likewise entering the yard under the influence of intoxicants is a offence.

70. Jumping on off trucks, automobiles or other moving vehicle is prohibited. Men should wait until the vehicle stops before attempting to enter or leave.

71. In confined spaces workers shall be protected with air line respirators with tight fitting rubber, mask (especially for painting etc.)

72. It shall be considered hazardous to carry out gas cutting or welding work within 15-20 feet from the place where paint is being applied.

73. The following works to be done through "Permit to work – on Instalment"

1. Work at height /fragile roof.
2. Excavation /Trenches opening
3. Work on gas line
4. Work on crane track/rail track

74. All scaffolding more than 2m height to be certified by S&F Department before boarded to scaffold.

75. All workers employed with asphaltic materials, cement shall be provided with personal protective equipments (PPE).

76. Works like welding, cutting, concreting, grinding, and painting shall be provided with protective goggles/eye shields.

77. When workers are employed in sewage/manhole, septic tank etc;

- a) The area shall be cordoned with warning boards.

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- b) Presence of toxic gases should be tested and oxygen availability to be ensured using suitable means.
- c) Safety belt shall be provided to the works.
- d) No smoking or opening claims shall be allowed near manholes.
- e) The waste/malba obtained from the manhole/drains shall be removed immediately.
- f) Air blowers should be used for flow of fresh air.
- g) The workers engaged for cleaning the manholes/sewers should be properly rained before allowing to work in the manhole.

Working at Height

- a) All work beyond 2.5m height shall be carried only with permit to work (PTW)
- b) Staging should be erected and inspected for all works beyond 2.5m heights.
- c) Full body harness to be worn by the individual working at height and should be attached to a strong point.
- d) No loose items like hammer, spanners etc should be kept on staging planks.
- e) In case of high risk work special procedure may be drawn up and approved for working.
- f) Working at height using rope access ladder system shall be approved by CMSRU.
- g) Every opening in the floor of a building or in a working platform shall be provided with suitable means to prevent the fall of person or materials by providing suitable fencing or railing whose minimum height shall be 90 cm.

Excavation

- a) All excavation shall be carried out only after getting PTW.
- b) Suitable fencing should be erected around the place of work.
- c) Sign board should be provided.
- d) Excavated materials shall be placed within 1.5m of the edges of the excavation and shall
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be removed immediately.

e) Cutting shall be done from top to bottom and no undermining and under cutting shall be done.

f) The size of the excavation shall be stepped back to be suitable slop to secure the edges from collapse.

g) Necessary shoring/protection to safe guards the sides from collapse.

Demolition

a) Area adjacent to the work site shall be either close or protected.

b) No electric cable shall remain charged.

c) PTW shall be obtained before commencement of work.

Welding

a) Welding equipment should be rectifier, inspected & certified by competent authority.

b) Welding cable should be continuous with proper insulation, no joints are permitted.

c) The equipment should be earthed to the nearest point.

d) The welding holder should be ISI mark.

e) Welding gloves should be compulsorily used.

f) Proper welding shield and safety helmets may be used.

g) The Welding plant should be connected to authorised electrical points with ELCB & MCB

h) Qualified /certified /experienced welders should only carry out welding jobs.

i) After work the equipment, supply points to be switched off and cable to be secured.

j) No welding should be carried out at unsafe/moist area and PTW be obtained at all applicable area.

Gas cutting

a) The hoses used should be as per Industrial colour coding (Acetylene-Maroon, Oxygenblue).

b) The hoses should be tested and should have validity.

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- c) No joints are permitted and in any unavoidable situation they should be more than 3 meter away secured and no additional joints permitted.
- d) The cuttogen used should be standard with flash back arrestor fitted.
- e) The entrapped air in acetylene should be blown, with care to avoid accumulation at work place.
- g) PTW to be obtained on all applicable areas.
- h) No cutting is permitted near to painting and flammable materials.
- i) On completion of work the cutting torch disconnected and hoses disconnected from cylinders.
- j) The hoses disconnected should be pulled out from place of work and kept in the safe area after rolling.
- k) The hose should be painted at every 5 meter with contractor/vendor/company name.
- l) In case of usage of cylinders, the cylinders should be kept in upright condition.
- m) Only experienced/certified workers should be engaged with cutting work.
- n) The nozzle selected should be on the basis of the job.
- o) Correct pressure to be used for cutting.

Sanctions for Violations

Any breach of the aforesaid provisions by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle the PRINCIPAL to take all or any one of the following actions, wherever required: -

- a) To immediately call off the pre contract negotiations without assigning any reason or giving any; compensation to the BIDDER. However, the proceedings with the other BIDDER(s) would continue.
 - b) The Earnest Money Deposit (in pre-contract stage) and/or Security Deposit/ Performance Bond (after the contract is signed) shall stand forfeited either fully or partially, as decided by the PRINCIPAL and the PRINCIPAL shall not be required to assign any reason therefore.
 - c) To immediately cancel the contract, if already signed, without giving any compensation to the BIDDER.
 - d) To recover all sums already paid by the PRINCIPAL, and in the case of an Indian BIDDER with interest thereon at 2% above the prevailing Prime Lending Rate of State Bank of India, while in case of a BIDDER from a country other than India with interest thereon at 2%
- Seal & sign authorised person

above the LIBOR (London Inter Bank Offer Rate). If any outstanding payment is due to the BIDDER from the PRINCIPAL in connection with any other contract for any other stores, such outstanding payment could also be utilized to recover the aforesaid sum and interest.

- e) To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by the PRINCIPAL, along with interest.
- f) To cancel all or any other contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the PRINCIPAL resulting from such cancellation/rescission and the PRINCIPAL shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.
- g) To debar the BIDDER from participating in the future bidding processes of PRINCIPAL for a minimum period as deemed appropriate, which may be further extended at the discretion of the PRINCIPAL.
- h) To recover all sums paid in violation of this Pact by BIDDER(s) to any middleman or agent or broker with a view to securing the contract.
- i) In cases where irrevocable Letters of Credit have been received in respect of any contract signed by the PRINCIPAL with the BIDDER, the same shall not be opened.
- j) Forfeiture of Performance Bond in case of a decision by the PRINCIPAL to forfeit the same without assigning any reason for imposing sanction for violation of this pact.

SECURITY CODE FOR CONTRACTORS

- a) Entry will be permitted strictly to Workman/ Supervisor/ Representative aged below 60 years only. No entry will be permitted to any person above 60 years under any circumstances.
- b) Details of Workman/ Supervisor/Representative available in Aadhar (Name, DOB, Gender etc) should exactly match with the details given in Age proof certificate of the Workman/ Supervisor/Representative. In case of any correction in the above particulars, the same has to be done before attending the HSE Induction Training.
- c) Contractor shall submit attendance of all the Workman/ Supervisor/Representative engaged by them including newly hired Workman/ Supervisor/Representative by 5th of every month invariably failing which necessary justification shall be obtained and any penalty/ interest/ fine charged by statutory authority will be borne by the contractor.
- d) No passes will be issued for Workman/ Supervisor and contractor if the above guidelines are not complied in all aspects.
- e) Safety violation if found the contractor will be liable fine as per the contract OR cancellation of contract as decided by the competent authority.
- g) The above directions shall be read with the other existing rules.

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Security Instructions

1. CMSRU is an ISPS code compliant Port Facility and is required to maintain the security level declared by the Government of India from time to time. The premises of Cochin Shipyard Limited is a „Prohibited Area „under the official secrets Act. All contractor and their personnel are bound to comply with security instructions/orders of the Shipyard issued from time to time.

2. 100%checking and frisking if all contractor/contract workmen entering into yard will be done.

5. All vehicles entering CSL shall have vehicle entry pass either conspicuously on the vehicles or endorsed in the entry pass. Vehicles carrying materials shall have material entry pass.

3. All persons engaged for various works in CSL through contractors should produce the following documents prior to issuing their entry passes;

a) Attested copy of any of the documents mentioned below:

i. Photo identity card issued by Government bodies

ii. Electoral identify card with clear and address particulars.

iii. Driving licence with photo and address particulars

iv. Passport /attested copy of passport with photo and address particulars.

v. Police clearance certificate with photo and address particulars.

4.No person above 58 years shall be permitted entry into the yard for any work except otherwise specially permitted by the occupier of the factory.

5) Police clearance certificate of not less than six months old to the effect that the concerned person is staying in the area of jurisdiction of the certificate issuing Police Station and that the persons not involved in any criminal offences as per the records available.

6) Application and decoration for enrolling under Employees“ Provident Fund ESI Scheme. Three passport size photograph of the individuals and two copies of family photographs of the member.

7) Medical fitness Certificate by any Registered Medical Practitioner in the prescribed format.

Deputy General Manager (CMSRU)

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General Terms and Conditions

1. Tenderers are to carefully go through the terms and conditions and the techno commercial specification of the items for which offers are called for. Deviations, if any, shall be separately listed and specifically brought out in the offer. CSL reserves the right to accept / reject the deviations.
2. Corrections and additions, if any, must be attested. Incomplete/ ambiguous offers are likely to be rejected.
3. In case of bids sent through email, then the documents should be password protected and the passwords should be passed on to the concerned officer while attending the bid opening or by email / SMS immediately before the tender opening against the request from officer.
4. Indigenous tenderers should quote prices for delivery of materials at CSL/CMSRU stores
5. Prices should be valid for acceptance for a period of three months (03 months) from the date of opening of tender.
6. No enhancement of rate for whatever cause will be allowed once the offer is accepted and an order is placed. Withdrawal of the quotation after it is accepted or failure to make the supply within the stipulated delivery period will entail cancellation of the order and forfeiture of Earnest Money Deposit/Security deposit, if any and/or risk purchase.
7. Taxes and duties, if any, payable extra are to be indicated in the price part for single bid and in techno-commercial part for two bid.
8. Delivery term and delivery time / work completion time required for completing the job scope should be indicated in the offer.
9. CSL/CMSRU terms of payment is 100% payment after delivery of items and in case of service after satisfactory completion of job, within 30 days from the date of submission of Invoice along with all mandatory documents.
10. The firm/ bidder winning the contract shall sign an agreement with Cochin Shipyard Ltd for "Fall clause". Accordingly, during the contract period, the firm / bidder cannot offer the item/s to anyone else at rates lower than the rates quoted, or the same lowest rate shall be applicable to the contract with CSL/CMSRU
11. Manufacturer's name, their trademark and brand, if any, should invariably be mentioned and illustrative leaflets giving technical particulars etc., should be attached to the offer.
12. Materials supplied shall be new and unused and shall confirm to CSL/CMSRU specifications and drawings.
13. Products supplied shall be nontoxic and harmless to health. In the case of toxic materials, Material Safety Data Sheet may be furnished along with the material.
14. Samples are to be supplied free of cost in the event of requirement by CSL/CMSRU. The detailed working drawing, if called for, is also to be furnished for approval before commencement of manufacture.
15. The quantities in each item to be purchased may vary according to actual requirement at the time of placing orders.
16. Force Majeure condition: Should failure in performance of the contract or part thereof arise from war insurrection, restraint imposed by Government, Act of Legislature or other Statutory Authority or illegal strike, riot, legal lock-out, flood, fire, explosion, act of God or any inevitable or unforeseen event beyond human control which may be construed as reasonable ground for an extension of time, CSL/CMSRU may allow such additional time as is mutually agreed, to be justified by the circumstances of the case. The occurrence/

cessation of force majeure situation is to be informed with documentary evidence within 15 days from the date of occurrence/cessation.

17. LD Clause: In case of delay in supply of ordered materials / delay in completion of work beyond the stipulated delivery / completion period which is not attributable to CSL, vendor is to pay liquidated damages (and not by way of penalty) a sum equivalent to ½%(half percent) per week or part of the week of the order value (basic price) in the case of machinery/equipment and of the value of materials / services delayed in the case of all other items/services subject to a maximum of 10% of the order value (basic price). For service orders, completion date as confirmed by the executing officer shall be reckoned for LD calculation.
18. Risk Purchase: If the supplier fails to supply the items ordered/complete the job scope within the delivery/completions date or violate any of the terms and conditions of the contract, CSL/CMSRU shall have the following rights.
 - (1) To terminate the contract with 15 days' notice forfeiting the security deposit.
 - (2) To initiate alternate procurement action at the risk and cost of the vendor.
19. Guarantee: The equipment supplied shall be guaranteed for satisfactory performance for 12 months from the date of commissioning or 18 months from the date of delivery of items whichever is earlier against faulty design, defective materials and bad workmanship. Supplier should supply and install free of cost immediately any part found to be defective for the above reasons within the guarantee period. The Services shall be guaranteed for a minimum period of 06 months from the date of successful commissioning/final acceptance.
20. Suppliers are generally allowed to depute their authorized representative to be present at the time of opening of the price bid. However this will be subject to the discretion/SOP of CSL, in view of the restrictions imposed by Govt/local body/CSL due to Covid-19 outbreak. At present, in view of COVID-19 pandemic, Vendors are not allowed inside CSL to attend opening of the price bid.
21. Cochin shipyard Ltd prefers to deal directly with the supplier. However, if the supplier appoints an Indian agent to deal with Cochin shipyard Ltd., the agency commission payable by the supplier to such an agency shall be intimated. If manufacturers affect the supply through agents only, authorization in writing from manufacturers in favour of the agent for supply to CSL shall be furnished. In case where an agent participates a tender on behalf of a foreign manufacturer Indian agent should submit specific authorization from the authorized person of foreign manufacturer. In a tender, either the Indian agent on behalf of the principal/ OEM or principal/ OEM itself can bid but both cannot bid simultaneously for the same item/ product in the same tender. If an agent submits bid on behalf of principal/ OEM, the same agent shall not submit a bid on behalf of another principal/ OEM in the same tender for the same item/product. Indian agents cannot represent more than one firm or quote on their behalf for any particular tender. Clarifications, either technical or commercial, should be submitted to points specially asked for only. The opportunity so given should not be used for correcting/changing/amending the data/conditions already submitted with the tender.

22. Jurisdiction: All questions, disputes or difference arising under, out of, or in connection with contracts shall be subject to the exclusive jurisdiction of the Courts at Ernakulum, Kerala, India.
23. In case advance payment is sought, interest at prime lending rates prevailing in India will be charged. In addition, a Bank Guarantee in the CSL format equivalent to advance amount is to be executed to cover the period till the advance payment is adjusted. Normally Advance payments are not encouraged.
24. Conditional discounts, if any, will not be reckoned for tender evaluation/ comparison purposes. However the same will be considered while placement of purchase order if the firm turns out to be L1.
25. After submission of tender, no unsolicited correspondence will be entertained.
26. Cochin Shipyard Limited does not bind itself to accept the lowest or any tender but reserves to itself the right to reject any or all or a part of any tender at its discretion.
27. Deviations, if any, in the offer submitted from that of the tender enquiry in any form, should be clearly furnished in a separate document titled as "List of Deviations", failing which it will be presumed that all the terms and conditions are acceptable.
28. Public Procurement Policy initiatives of Govt. of India, pertaining to MSME's, startup etc as per CSL website (www.cochinshipyard.in) shall be applicable for this tender.
29. Vendor is solely responsible for the safety of its personnel inside CSL. Service provider will be responsible for the safety of personnel engaged and shall adopt all safety measures to comply with safety regulations in force in CSL. Service representative working onboard should maintain proper dress code as per CSL standards. They shall submit electronic challan remittance copy of ESI&EPF details of their employees and employee compensation policy details for employees not falling under ESI limit during the submission of invoice, documents supporting for facilitating gate access. They are bound to follow safety guidelines applicable in CSL like safe usage of tools & tackles, electrical safety guidelines, gas management system etc. Scrap management system & disposal of hazardous chemicals used to dispose by contractor itself on his own responsibility. Work place hygiene to be ensured by contractor itself.
30. Asbestos should not be part of any material /packing material supplied to CSL.
31. Shall abide by CSL rules for entry and exit of man and materials. Vendor and personnel will comply with: (1) all procedures and policies provided by CSL, including CSL's, environmental, health, safety, and security procedures, and related management systems when performing services at CSL facilities.
32. Service provider will have to abide by the various laws & regulations such as Contract Labour Regulation (Abolition) Act, ESI Act 1948, EPF Act 1952 etc as applicable.
In case your employees are already covered under EPF/ESI scheme, their respective account numbers are to be furnished along with copy of challans as proof for remittance of ESI & EPF. If any employee is exempted from ESI, valid proof for the same also shall be submitted before commencement of work. Labor deputed for the work shall not have crossed over 60 years. Submission of above documents is statutory for issue of entry passes for working inside CSL. This is also required for releasing the payment since CSL site is permanently covered under above noted regulations. The certificate of compliance from Contractor as per attached format shall also be filled and submitted along with submission of bills for payment. Bills without duly certified "certificate of compliance from Contractor" shall not be passed for payment. (Form for Compliance of Provisions of various labour Enactments attached as Enclosure - 4)

33. Vendor will package products according to instructions of CSL provided in the purchase order, and if nothing is provided, then according to good commercial practice to ensure safe arrival of the products. Avoid plastic materials for packing to the extent possible. Packing material shall be ecofriendly. Vendor should follow the statutory requirements of the products offered. In case of chemicals and toxic materials being supplied, vendor should furnish material safety data sheet (MSDS) compulsorily along with the material.
34. Acknowledge the receipt and acceptance of purchase order/Work order by signing and returning a copy of the same within three days of receipt of the same. If the acknowledgement is not received, it will be presumed as accepted.
35. Subcontracting to other vendors shall be only after written intimation and approval of competent CSL authorities. Vendor shall not delegate or subcontract any of its obligations under the agreement without CSL's written consent. Vendor will remain liable for all subcontracted obligations and all acts or omissions of its subcontractors.
36. The procedures of work, standard operating procedures of work including documents like welding procedure specifications developed by CSL are intellectual property of CSL. Vendors shall not use or copy the procedure in any format without the written consent of competent authorities of CSL.
37. Vendors shall take back rejected products, if any, and immediately supply new product/rectified product at vendor's expense, including all freight costs.
38. For product that is discovered defective during the warranty period, vendor will, at vendor's expense replace or repair defective product and re-deliver such repaired or replaced product to CSL within a commercially reasonable timeframe agreed by CSL.
39. Except as specifically stated in the purchase order, vendor will be responsible for all costs incurred in connection with providing the services, including personnel's expenses.
40. CSL is not obligated to pay any invoice submitted 180 days or more after a product is shipped or services are completed.
41. Vendor shall return the CSL resources to CSL immediately after provision of all deliverables and services or any termination of the agreement.
42. Vendor warrants that the products and services will comply with their specifications and will be of good quality acceptable to CSL/ship and must be fit for any purpose made known to vendor.
43. Vendor warrants that the products will be new, unused, and not refurbished at the time of delivery, and will be safe for normal use and free from defects in design, materials, and workmanship during the warranty period.
44. Vendor warrants that for software provided by vendor, (1) there is no open source software in the products (or any other items provided by vendor), unless vendor has notified CSL in writing before delivery and CSL has consented in writing to accepting this open source software, and (2) the software will not damage, interfere with, or permit unauthorized access to any other existing products or systems on which it is installed or any information residing on those products or systems.
45. Vendor and personnel will (1) keep confidential the terms of the agreement and all non-public and proprietary CSL information, and will only use such information to provide products and services under the agreement, and will not disclose such information except to the extent required by law after giving reasonable notice to CSL, if permitted by law; and (2) not use in providing products or services or disclose to CSL any materials or documents of another party considered confidential or proprietary unless it has obtained written authorization from that party and CSL.

46. Vendor will indemnify CSL and its affiliates, directors, officers, and employees against all liabilities, damages, losses, costs, fees (including legal fees), and expenses relating to any allegation or third-party legal proceeding (including action by a government authority) to the extent arising from an allegation that use, possession, or sale of the products or services violates or infringes a third party's rights, including intellectual property rights; or an allegation that any personnel are entitled to employee compensation, benefits, or other rights or transfer law rights, except to the extent caused by CSL's unlawful acts or omissions.
47. No enhancement of rate for whatever cause will be allowed once the offer is accepted and an order is placed. Withdrawal of the quotation after it is accepted or failure to make the supply within the stipulated delivery period will entail cancellation of the order and forfeiture of earnest money deposit/security deposit, if any and/or enforcement of risk purchase clause.
48. List of deviations from the general terms and conditions shall be submitted and the same shall be mutually acceptable. In the event of no deviation list submitted by the vendor, it is presumed that all conditions are accepted by the vendor.
49. All certificates called for in order specification must be sent to CSL at the time of delivery of items all the material supplied must satisfy CSL quality requirements.
50. Invoice:
 - (i) All invoices must be sent to CSL on delivery of items /work completion as per the order terms
 - (ii) Purchase order number and date and dispatch particulars should be clearly mentioned in the invoice.
 - (iii) Wherever payments are authorized through bank, copy of the invoice should be forwarded directly to CSL under intimation so as to facilitate release of document in time. All bank charges will be to vendor's account.
 - (iv) When the payment is in installments, separate invoice is required for each payment.
 - (v) 100% payment will be made against your invoice on satisfactory completion of the work.

The documents for releasing payment - original invoice with service report duly signed by vessel owner and CSL officer-in-charge along with documentary proof of expenses after satisfactory completion of work.

51. "In case imported items are part of the items required for the job Customs duty exemption can be availed by CSL if order for these imported items is placed on high sea sales basis by CSL or direct import order on bidder's principals for import items by CSL. In case of import orders/ high sea sales, the offer has to be on CFR basis to the nearest airport/as mentioned in the enquiry.

The customs clearance, DO charges payment and IGST payment against bill of entry shall be done by CSL.

In case of direct import orders by CSL, copy of Airway bill, foreign currency invoice and packing list would be required. In case of High Sea Sale, HSS agreement and INR invoice in addition to copy of Airway bill, foreign currency invoice and packing list shall also be required.

The copy of all documents to be forwarded to CSL by email at least two days prior to arrival of the consignment at Airport for CSL to arrange the Customs exemption documents and file Bill of entry prior/ latest on date of arrival of the consignment itself. In case of any delay

in receipt of documents, the bill of entry late filing fine shall be adjusted from the vendors payment.”

Tender conditions for Restriction of bidders sharing land border with India is attached below and certificate as required in the below conditions to be submitted along with tender documents.

Tender conditions for Restriction of bidders sharing land border with India vide Office memorandum dt 23.7.2020 Order - Public Procurement no 1 dt 23.7.2020, Order no 2 dt 23.7.2020 and Order no 3 dt 24.7.2020	
A	Requirement of registration
1	Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with competent authority as per C below. In works contracts, including turkey contracts, contractors shall not be allowed to sub contract works to any contractor from a country which shares a land border with India unless such contractor is registered with Competent authority. Relevant certificate to be submitted by bidder from a country which shares land border with India except for bidders to which Govt of India has extended lines of Credit or in which Govt of India has development projects, along with the offer as proof of registration with competent authority, failing which the offer will not be considered. A certificate is to be submitted by the bidder for compliance with the order referred above along with tender documents for consideration of offer (Wordings are as per Clause below). If such certificate given by a bidder whose bid is accepted is found to be false, this would be a ground for immediate termination and further legal action in accordance with law.
2	Wordings of certificate to be submitted along with tender documents
	I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India. I hereby certify that this bidder is not from such a country or, if from such a country, has been registered with the competent authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered. (Evidence of valid registration by the competent authority shall be attached wherever applicable).
2	Wordings of certificate to be submitted along with tender documents for Works involving possibility of subcontracting
	I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on subcontracting to contractors from such countries. I certify that this bidder is not from such a country or if from such a country has been registered with the competent authority and will not subcontract any work to a contractor from such countries unless such contractor is registered with the competent authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered (Evidence of valid registration by the competent authority shall be attached wherever applicable)
B	Validity of registration

1	Registration should be valid at the time of submission of bids and at the time of acceptance of bids. In respect of supply otherwise than by tender, registration should be valid at the time of placement of order. If the bidder is validly registered at the time of acceptance /order placement, registration shall not be a relevant consideration during contract execution.
C	Competent authority and Procedure for registration
1	The competent authority for the purpose of registration under the order shall be Registration committee constituted by the Department of Promotion of Industry and Internal Trade (DPIIT). Details of the committee and procedure for registration and restrictions shall be as per Ann I of the Order - Public Procurement no 1 dt 23.7.2020 issued by Ministry of Finance, department of Expenditure.
D	Definition of Bidder and Bidder from a country sharing land border with India
1	Bidder is defined as any person or firm or company including any, member of a consortium or joint venture, every artificial, juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency, branch or office controlled by such person, participating in a procurement process.
2	"Bidder from a country which shares a land border with India" for the purpose of this Order means:- a) An entity incorporated, established or registered in such a country; or b) A subsidiary of an entity incorporated, established or registered in such a country; or c) An entity substantially controlled through entities incorporated, established or registered in such a country; or d) An entity whose beneficial owner is situated in such a country; or e) An Indian (or other) agent of such an entity; or f) A natural person who is a citizen of such a country; or g) A constitution or joint venture where any member of the consortium or joint venture falls under any of the above.
3	Type of business entity (Private Limited Company/ Public Limited Company/ Sole Proprietorship/ One Person Company/ Partnership/ Limited Liability Partnership/ Joint Venture/ Trust/ NGO) In case of incorporated entity - to attach certificate of incorporation
	Beneficial Owners - as defined in the Department of Expenditure Order (Public Procurement No.1) issued vide No. F.No.6/18/2019-PPD dated 23 rd July, 2020. Details of all beneficial owners having entitlement of more than 01% of shares or capital or profit to be given, in the format as given in Annexure-I duly certified by practicing Chartered Account in India.

52. Following are the Tender Conditions Preference to Make in India

Tender condition - Preference to Make in India		
A	Purchase preference in accordance with Public procurement (Preference to Make in India Order - 2017) Order from Department of Promotion of Industry and Internal Trade P - 45021 /2/2017/-B.E -II dt ,4.6.2020 and as amended from time to time shall be applicable as per below	
1	In the procurement of all goods/services/works in respect of which there is sufficient local capacity/local competition, only Class I Local suppliers shall be eligible to bid irrespective of purchase value	
2	In the procurement of all goods/services /works which are not covered as above and with estimated value of purchase less than Rs 200.0 Crores, only Class I local suppliers along with Class II local suppliers shall be eligible to bid.	
	Purchase preferences for Class I local suppliers	
B	In the procurement of goods/works covered under 2 above and which are divisible in nature, Class I local supplier shall be eligible for Purchase preference over Class II/Non local supplier as per following	
1	If L1 bid is not a Class I local supplier, 50% of the order quantity shall be awarded to L1. Thereafter the lowest bidder among Class I local supplier will be invited to match the L1 price for the remaining 50% quantity subject to Class I local supplier quoted price falling within 20% margin. Contract for that quantity shall be awarded to such Class I local supplier subject to matching L1 price. In case such lowest eligible Class I local supplier fails to match L1 price or accept less than offered quantity, next higher Class I local supplier within 20% margin shall be invited to match the L1 price for the remaining qty and so on. If some quantity is left uncovered on Class I local supplier, such balance quantity shall be ordered on L1 bidder.	
2	For procurements that are not divisible in nature and in procurement of services evaluated on price alone, Class I local supplier shall get purchase preference over Class II/Non local supplier as per below	
3	If L1 is not a Class I local supplier, lowest bidder among Class I local supplier will be invited to match L1 price subject to Class I local supplier quoted price falling within 20% of L1 price and contract will be awarded to such Class I local supplier, subject to matching L1 price. In case such lowest eligible Class I local supplier fails to match L1 price, procedure same as para 3 above will be opted. In case none of Class I local suppliers within 20% margin matches L1 price, contract shall be awarded to L1 bidder. The purchase preference as above will be only for Class I local supplier and Class II local supplier will not be eligible for any Purchase preference	

C	Local content requirement to categories a supplier as Class I/Class II /Non local supplier shall be as per below. Definition of local content shall be as per order dt 4.6.2020 ie amount of value added in India which shall be the total value of the item procured (excluding net domestic indirect taxes) minus the value of import content in the item (including all customs duties) as a proportion of total value in percentage.	
1	Class I -Local content equal to or greater than 50%	
2	Class II-Local content greater than 20%, less than 50%	
3	Non local -Local content less than 20%	
D	Declaration of local content	
1	Class I local supplier /Class II local supplier at the time of tender shall indicate % of local content and provide self certification that offered item shall meet the local content requirement for ClassI/Class II as applicable including details of locations at which local value addition is made.	
2	In case of procurement for a value in excess of Rs 10.0 Crores Class I/Class II local supplier is to provide a certificate from statutory auditor/cost auditor(for companies) /practicing cost accountant/Chartered accountant (suppliers other than companies) indicating % of local content	
3	Verification of the Certificates issued by the bidder shall be carried out by CSL on random basis. False declarations will attract actions as stipulated in the order referred, including other actions as permissible by law.	
4	Exemption is applicable from provisions of order for purchases with estimated values less than Rs 5.0 lakhs	
5	Notwithstanding above, exemptions for meeting local content as per relevant Clause of order dt 4.6.2020 and as amended from time to time shall apply.	

53. ARBITRATION :

1. Any disputes arising the currency of the contract shall, in the first instance be settled by mutual discussions and negotiations. The results of such resolution of dispute shall be incorporated as an amendment to the contract, failing which the parties can resort to arbitration.

2. If any dispute, disagreement or question arising out of or relating to or in consequence of the contract, or to its fulfillment, or the validity of enforcement thereof, cannot be settled mutually or the settlement of which is not herein specifically provided for, then the dispute

shall within thirty days from the date either party informs the other in writing that such disputes, disagreement exists, be referred to arbitration. The arbitrators shall be appointed and the arbitration proceedings shall be conducted in accordance with and subject to the Arbitration and Conciliation Act, 1996 (No. 26 of 1996) as amended from time to time and the decision of the Arbitrators shall be final and binding on the parties hereto. The arbitration will be done by a Board comprising one officer nominated by each party, and a mutually agreed Umpire. Each party shall bear its own cost of preparing and presenting its case. The cost of arbitration shall be shared equally by the parties unless the award provides otherwise. The enforcement of the award shall be governed by the rules and procedures in force in the State in which it is to be executed. Performance under this Contract shall however, continue during arbitration proceedings and no payment due or payable by the parties hereto shall be withheld unless any such payment is or forms a part of the subject matter of arbitration proceedings.

3. In case of disputes, the same will be subjected to the jurisdiction of courts at Ernakulam, Kerala, India only.

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COMPLIANCE MATRIX

(TO BE SUBMITTED WITH THE "Technical" BID)

SL.NO.	DESCRIPTION	REMARK
1.	ACCEPT THE ENTIRE SCOPE OF WORK AS PER ENQUIRY	YES / NO
2.	IF THE ANSWER TO QUESTION 1 ABOVE IS NO, PLEASE LIST THE SPECIFIC JOBS NOT BEING UNDERTAKEN AS A DEVIATIONS LIST AND ATTACH WITH THIS MATRIX.	LIST OF DEVIATIONS FROM SCOPE OF WORK ATTACHED/ NOT ATTACHED
3.	ACCEPT THE GENERAL TERMS AND CONDITIONS AND TENDER TERMS & CONDITIONS INDICATED IN THE ENQUIRY.	YES / NO
4.	IF THE ANSWER TO QUESTION 3 ABOVE IS NO, LIST THE DEVIATIONS AND ATTACH WITH THIS MATRIX.	LIST OF DEVIATIONS FROM GTC.
5.	PAYMENT TERMS AS INDICATED IN ENQUIRY IS ACCEPTABLE.	YES / NO

(Signature of the Contractor)

Seal of the firm.

Health, Safety & Environment Contract Guidelines for OEMs /Turnkey jobs / Sub contract works inside CSL

Introduction

CSL is the largest public sector shipyard in India in terms of dock capacity, and caters to clients engaged in the defence sector in India and clients engaged in the commercial sector worldwide.

CSL is committed to provide safe and healthy work environment for the prevention of work- related injury and ill health by following the best practices in safety. CSL is certified Occupational Health and Safety management System and Environmental Management system under ISO standards/international standard.

Many of the works of CSL at various sites are executed by the sub-contractors. During these works, sub-contractors personnel are likely to be exposed to different types of hazards. Similarly unsafe acts of contractors personnel may create hazards for CSL staff or workmen of other contractors working at the site. Such unsafe acts may also pose danger to the existing installations and even to members of public.

CSL ensures that the requirements of its HSE Management System are conveyed by contractors and their workers. This guide is prepared to facilitate safe working during execution of contract works. The General guide lines and HSE requirements are given below for compliance in CSL.

I. General guidelines

1. OEMs/Turnkey jobs /Contractors are selected to work inside the CSL based on their track record.
2. Along with the contract order/Registration, a copy of the HSE Safety Handbook (CSL/ QMS/S&F/SOP 02) of CSL is given to all contractors. The details of all HSE requirements to be followed in CSL for the various types of work are detailed in the hand book. The OEMs/Turnkey jobs /Contractors shall go through all the details and strictly follow the relevant HSE guidelines for their work. In case of any doubt the same shall be clarified from Chief Safety Officer (CSO). Being ignorant of these HSE requirements will not be treated as an excuse for any HSE violations during course of work.
3. OEMs/Turnkey jobs /Contractors workmen are given a multilingual HSE induction and Emergency Response training. The individual passes for contractors and their workers are issued only after successful completion of this training. The passes are revalidated every year after successful completion of refresher training. Training requirements of other roles of the subcontractor's staff shall be complied as per the CSL requirements time to time.
4. Before start of any work, the CSL officer in charge explains the scope of work and the safety precautions, hazards, PPE usage as per PPE matrix of CSL, Work Instructions, SOPs, Emergency responses to the contractor and his workers. Only trained worker with necessary skills are allowed to work as per the requirement. Necessary PPEs for the work are to be arranged by the contractor.
5. Workmen shall have Cotton coverall with identifiable logo on the dress. Supervisors, fire watch man if required, safety staff and other workforce shall be deployed as per CSL guide lines.
6. The site work supervisor of the OEMs/Turnkey jobs /Contractors shall be ensured that works are being carried out by CSL HSE requirements on daily basis and till the completion of works. The safe start and safe end requirements shall be verified by the site work supervisor on daily basis.
7. OEMs/Turnkey jobs /Contractors HSE performance will be evaluated on HSE matters as per the CSL policies time to time.
8. During the course of work if any HSE violation is noticed the same is dealt as per the Rewards and Reprimand (R&R) Policy of CSL.

II. HSE requirements

1. The OEMs/Turnkey jobs /Contractors shall take all safety precautions during the execution of awarded work and shall maintain and leave the site safe at all times. At the end of each working day and at all times when the work is temporarily suspended, he shall ensure that all materials,

equipment and facilities will not, cause damage to existing property, personal injury or interfere with the other works of the project or Station.

2. The OEMs/Turnkey jobs /Contractors shall provide and maintain all type of lights, guards, fencing, warning signs, caution boards and other safety measures for vigilance as and where necessary or as required by the CSL officer-in-charge or Safety staff. The caution boards shall also have appropriate symbols.
3. Where Permit to work (PTW) is required, the work has not started without obtaining the necessary permit and the PTW requirements are followed strictly throughout the work.
4. For Project specific or non-routine work on the existing installations, separate Job Safety Assessment (JSA) is to be prepared by the contractor, cleared by the Dept in charge and approval obtained from CSO before start of work.
5. A separate HSE plan will be required for the new projects in the yard or any turnkey projects. It shall be in line with CSL HSE requirements and same shall be routed through respective S&F dept and approved by respective HOD.
6. OEMs/Turnkey jobs /Contractors shall hold toolbox talks with his workers on daily basis to convey matters regarding the Safety aspects of the work.
7. The OEMs/Turnkey jobs /Contractors shall plan his operations so as to avoid interference with other Departmental works and other Sub-Contractors at the site. In case of any interference, requires, coordination shall be sought by the contractor from the Department for safe and smooth execution of work. This shall be done through CSL executing officer.
8. The OEMs/Turnkey jobs /Contractors shall at all times keep their work spot, site office and surroundings clean and tidy from rubbish, scrap, surplus materials and unwanted tools and equipment. Welding cables, hoses and electrical cables shall be so routed as to allow safe way to all concerned.
9. All waste generated in course of the work shall be segregated as per the yard requirements and shall be disposed at the respective collection pallets / points of the work areas as the case may be. Any kind of pollution made by the subcontractor shall attract the reprimand proceedings.
10. All necessary precautions shall be taken to prevent outbreak of fires at the work site. Adequate provisions shall be made to prevent the possibility of fires and ensure the availability of fire extinguishers at site.
11. The OEMs/Turnkey jobs /Contractors shall be held responsible for non-compliance of any of the safety measures and delays, implications, injuries, fatalities and compensation arising out of such situations of incidents including statutory obligations.

UN-PRICE BID						
MP1/ARC/CIVILWORKS/23-24/CMSRU					Encl:9	
Mention Quoted/Not Quoted						
Maintenance rate contract for items common for all Civil works in buildings in CSL-CMSRU & JTA/Officers quarters at Wadala & Mazgaon for the year 2023-2024						
Sl No	Description of work	Qty	UoM	Unit Rate (Rs.)	Total Rate (Qty x Unit Rate) (Rs.)	GST(%)
EARTH WORK						
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil ,backfilling the same soil or disposal of surplus excavated soil as directed.Rate is inclusive of demolishing bituminous surface/ concrete/ rubble/ solingstone etc if any.complete.	50.00	m ³			
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	30.00	m ³			
3	Supplying and Filling inside basement with local good earth(including royalty) and consolidating in layers not exceeding 150mm thick each, in line and level including watering, ramming consolidating and dressing, cost and conveyance of all materials, labour, other incidentals etc complete.	20.00	m ³			
4	Clearing site including uprooting of vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level, removal of rubbish and disposal within CMSRU premises as per direction of Engineer-in-Charge including all labour, other incidentals, hire for tools and plants etc. complete.	500.00	m ²			
5	Surface dressing of the ground in all kinds of soil including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish and debris within a lead of 3km including all labour, other incidentals etc. complete.	500.00	m ²			
6	Supplying,spreading and consolidating stone dust in layers not exceeding 150mm thick each in line and level including cost and conveyance of all materials,labour,other incidentals etc. complete.	30.00	m ³			
CONCRETE						
7	Providing and laying plain cement concrete 1:4:8 using 40mm down graded IS nominal size hard broken metal including cost and conveyance of all materials,labour for mixing, laying, consolidating curing as per IS.456 etc.complete but excluding cost of cement and cost of formwork.	30.00	m ³			
8	Providing Form work,Centering and shuttering including strutting, propping using shuttering sheet,supporting beams, supporting jacks,wooden planks and other incidentals etc. including removal of formwork after completion of work and clearing all materials and cost and conveyance of all materials labour etc	300.00	m ²			

9	Providing and laying reinforced cement concrete 1:2:4 using 20mm down graded broken granite metal in ground floor upto 5m height including cost and conveyance of all materials, labour for mixing, laying, consolidating, curing, cost of dewatering etc. complete but excluding cost of cement, cost of formwork and cost of reinforcement.	50.00	m ³			
10	Providing and laying reinforced cement concrete 1:11/2:3 using 20mm down graded broken granite metal for columns, beams and slabs including cost and conveyance of all materials, labour for mixing, laying, consolidating, curing, cost of dewatering etc. complete but excluding cost of cement, cost of formwork and cost of reinforcement. (formwork and reinforcement which will be measured separately).					
a.	All work upto plinth level	50.00	m ³			
b.	Above plinth level up to fourth floor level	10.00	m ³			
11	Reinforcement for RCC work including cost and conveyance of all materials, labour for, uncoiling, straightening, cutting, bending, laying & tying with 22G binding wire etc. complete but excluding cost of steel (mild steel or tor steel) but including cost of binding wire.	100.00	Qtl			
12	Pressure grouting in Concrete/Masonry area etc using modified cement slurry added with expansive additive of approved brands like SIKA, FOSROC, CHRYSO, etc after fixing up of 12mm dia PVC nipple etc at points as directed by the engineer-in-charge. The ratio of proportioning chemical to cement shall be as per manufactures recommendation. The rate shall include the cost and conveyance of all materials, hire charges for pressure gun, all labours and material excluding the cost of cement. (The payment shall be made on the basis of actual weight of approved grout injected.)	15.00	kg			
BRICK/BLOCK/STONE WORK						
13	Brick work with common burnt clay machine moulded modular bricks of class designation 12.5 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand).					
a.	Rate for Foundation and basement	30.00	m ³			
b.	For super structure	15.00	m ³			
14	Brick work in CM 1:4 for half brick wall using class designation 7.5 for superstructure including cost and conveyance of all materials, labour, other incidentals etc complete, excluding cost of cement. CPWD 6.13.2					
a.	Up to second floor level	75.00	m ²			
15	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) & pointing with CM 1:3 including cost and conveyance of all materials, labour, other incidentals etc complete, excluding cost of cement upto plinth level					
a.	For foundation and basement	5.00	m ³			
16	Providing and laying factory made Precast concrete solid blocks of 200 mm thickness of grade M10 from approved manufacturer in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand) for all leads and lifts including cost and conveyance of all materials, labour, other incidentals like scaffolding, curing etc complete, excluding cost of cement. cement.					
a.	Upto plinth level	30.00	m ³			
b.	Upto 5th floor	5.00	m ³			
17	Providing and laying half block masonry with factory made Precast concrete solid blocks of 100 mm thickness of grade M10 waste from approved manufacturer in foundation and plinth in: cement mortar 1:4 (1 cement : 4 coarse sand) for all leads and lifts including cost and conveyance of all materials, labour, other incidentals like scaffolding, curing etc complete, excluding cost of cement.					
a.	Upto plinth level	15.00	m ²			
b.	Upto 5th floor	5.00	m ²			
DOORS/WINDOWS/VENTILATORS						
18	Supplying and fixing/replacing Marine plywood to the doors/partitions/floors etc including cost and conveyance of all materials, labour charges, all incidentals etc. Complete.					
a.	12mm	5.00	m ²			
19	Providing and fixing/replacing mosquito proof nets made of the following materials to the door/window/ventilator frames already fixed using teak wood with beading screws, nails etc. including cost and conveyance of all materials labour etc. complete (Planed and framed work if required for openable shutters will be paid separately. Fittings will be paid separately)					

a.	Stainless steel	2.00	m ²			
20	Providing and replacing/ fixing stainless steel/brass fixtures to doors /windows / ventilators/ partitions with necessary screws ,including cost and conveyance of all materials labour etc. complete					
a.	75mm butt hinges (Stainless steel)	4.00	nos			
b.	100mm butt hinges (Stainless steel)	4.00	nos			
c.	125mm butt hinges (Stainless steel)	4.00	nos			
d.	100mm barrel tower bolt(Brass)	4.00	nos			
e.	150mm barrel tower bolt(Brass)	4.00	nos			
f.	150mm aldrop(Stainless steel)	4.00	nos			
g.	200mm aldrop(Stainless steel)	4.00	nos			
h.	100mm door handles (Aluminium powder coated)	4.00	nos			
i.	Door stopper (Stainless steel)	4.00	nos			
j.	100 mm hooks and eyes (Stainless steel)	4.00	nos			
k.	150mm hooks and eyes(Brass)	4.00	nos			
21	Supplying and fixing/replacing approved quality Indian make Aluminium section lock for doors. including cost and conveyance of all materials,labour and other incidentals etc. complete.	2.00	nos			
22	Supplying and fixing/replacing broken glass panes for doors, windows, ventilators etc including cost and conveyance of all materials and other incidentals etc. complete. (Rate includes cost of Neoprene/EPDM rubber gasket wooden beading, putty, clips etc of approved quality wherever required)					
a.	4mm plain glass	1.00	m ²			
b.	5mm plain glass	1.00	m ²			
23	Suppling and fixing following plain glass with edge rounded for table top.					
a.	8mm thk plain glass	1.00	m ²			
24	Supplying and fixing 30 mm thick Glass Fibre Reinforced Plastic (FRP) panelled door shutter of required colour and approved brand and manufacture, made with fire - retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate for forming hollow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places for fixing of fittings, cast monolithically with 5 mm thick FRP laminate for panels conforming to IS: 14856, with approved accesories such as 100mm SS hinges 4 nos., 100mm Anodised aluminium tower bolt 1no., 150mm aluminium aldrop 1no., Chromium plated Brass mortice latch and lock 100x65 mm with 6 levers and a pair of brass lever handles and necessary screws including cost of labour and all other incidentals etc. complete. .					
a.	With out Frame	5.00	m ²			
b.	With Frame of section 90 x 45 mm	5.00	m ²			
25	Supplying and fixing / replacing M.S weld mesh 50mmx50mmx4mm using necessary screws, wooden beeding ,painting with one coat of iron primer etc. complete.	10.00	m ²			
26	Supplying and fixing, 22G aluminium sheets to the wood planks, shelf, doors, windows,walls & roofs etc.including cost and conveyance of all materials labour charges, all wastages, other sundries etc. complete.	10.00	m ²			
FLOORING						
27	Providing and laying plain cement concrete 1:11/2:3 using 6mm/12mm down graded IS nominal size hard broken aggregate after cleaning the surface and applying necessary bonding agents like Nitobond SBR or equivalent @1.3litre/m3 for proper bonding between old and new concrete including cost and conveyance of all materials, formwork, labour for mixing, laying, consolidating curing etc.complete but excluding cost of cement.	2.00	m ³			
28	Providing and laying plain cement concrete 1:11/2:3 using 6mm/12mm down graded IS nominal size hard broken metal after cleaning the surface including cost and conveyance of all materials, formwork, labour for mixing, laying, consolidating curing etc.complete but excluding cost of cement.	2.00	m ³			
29	Supplying and laying non-slippery ceramic flooring tiles of approved brand ,quality and colour after clearing the floor properly by pasting with chemical adhesive Cerabond and equivalent and pointing the joints with coloured cement to match with the tiles in line and level including cost and conveyance of all materials, labour other incidentals etc. complete. (Basic rate of tile Rs. 410/m2 excluding GST)	10.00	m ²			

30	Supplying and laying ceramic glazed tiles of approved brand ,quality and colour for dadoing by pasting with chemical adhesive Cerabond /equivalent and pointing the joints with coloured cement to match with the tiles in line and level including cleaning the existing surface properly, cost and conveyance of all materials, labour other incidentals etc. complete (Basic rate of tile Coloured Tiles Rs. 420/m2 Excl. GST)					
(a)	(450mm x 300mm)	10.00	m ²			
31	Supplying and laying non-slippery/anti-skid ceramic flooring tiles of approved brand ,quality and colour set in CM 1:4 20mm thick and Jointing with grey cement slurry @ 3.3 kg/sqm for the proper binding of the tiles to line and level, pointing the joints with coloured cement to match with the tiles including cost and conveyance of all materials, labour other incidentals (size 300mm x 300mm), excluding cost of cement.(Basic rate of tile Rs.410/m2 Excl.GST)etc. complete	10.00	m ²			
32	Supplying and laying ceramic glazed tiles of approved brand ,quality and colour for dadoing by pasting with Cement and pointing the joints with coloured cement to match with the tiles in line and level including cleaning the existing surface properly, cost and conveyance of all materials, labour other incidentals etc. quantity of cement shall be measured in relevant item. complete (Basic rate of tile Coloured Tiles Rs.420/m2 Excl.GST)	10.00	m ²			
33	Supplying and laying ceramic glazed tiles of approved brand ,quality and colour for dadoing set in CM 1:3 12mm thick and jointing with grey cement slurry @3.3kg per sqm for the proper binding of the tiles to line and level pointing the joints with coloured cement to match with the tiles including cost and conveyance of all materials, labour other incidentals etc. complete, excluding cost of cement.(Basic rate of tile 420/m2 Excl. GST) (size of 450mm x 300mm)	10.00	m ²			
34	Supplying and laying approved type and colour Vitrified flooring Tiles approved brand , set in CM 1:4 20mm thick and jointing with grey cement slurry @ 3.3 kg/ sqm for the proper binding of the tiles to line and level, pointing the joints with coloured cement to match with the tiles including cost and conveyance of all materials, labour other incidentals etc. complete, excluding cost of cement.					
a.	600x600mm (Basic rate of tile per Sq mtr Rs. `660.0 Excl.GST)	10.00	m ²			
a.	800x800mm (Basic rate of tile per Sq mtr Rs. `850.0 Excl.GST)	10.00	m ²			
35	Supplying and laying approved brand ,quality Vitrified flooring Tiles of size not less than 600x600mm,by pasting with chemical adhesive Cerabond /equivalent and pointing the joints with coloured cement to match with the tiles in line and level including cleaning the existing surface properly, including cost and conveyance of all materials, labour other incidentals etc. complete,					
a.	600x600mm (Basic rate of tile per Sq mtr Rs. `660.0 Excl.GST)	20.00	m ²			
a.	800x800mm (Basic rate of tile per Sq mtr Rs. `850.0 Excl.GST)	20.00	m ²			
36	Supplying and laying approved brand ,quality and colour Vitrified pavement Tiles(300mm x 300mm) , set in CM 1:3 20mm thick and jointing with grey cement slurry @ 3.3 kg/ sqm for the proper binding of the tiles to line and level, pointing the joints with coloured cement to match with the tiles including cost and conveyance of all materials, labour other incidentals etc. complete, excluding cost of cement.(Basic rate of tile Coloured Tiles Rs. 350/m2 Excl.GST)	10.00	m ²			
37	Dismantling &Relaying floor tiles work in all floors of the building set in CM 1:4 20mm thick and jointing with grey cement slurry @ 3.3 kg/ sqm for the proper binding of the tiles to line and level, pointing the joints with coloured cement to match with the tiles including cost and conveyance of all materials, labour other incidentals etc. complete, excluding cost of cement.	20.00	m ²			

38	Dismantling & Relaying floor tiles work in all floors of the building by pasting with chemical adhesive Cerabond /equivalent and pointing the joints with coloured cement to match with the tiles in line and level including cleaning the existing surface properly,including cost and conveyance of all materials, labour other incidentals etc. complete,	10.00	m ²			
39	Supplying and laying Ferrocon/ Scorpio /equivalent precast cement concrete tiles of approved quality and colour set in CM 1:4 20mm thick and cement adding necessary cement grout for the proper binding of the tiles to line and level pointing the joints with coloured cement to match with the tiles including rubbing and cleaning including cost and conveyance of all materials, labour other incidentals etc. complete, excluding cost of cement.	10.00	m ²			
40	Supplying and laying polished 18mm thick Granite slab in required design and patterns with smoothly polished upper edges in semi circular shape, set in CM 1:3, 20mm thick plastering laid and jointed with cement slurry and pointing with pointing powder pigment of matching shade including rubbing, curing and polishing etc in line and level including cost of all materials, conveyance, labour, other incidentals etc complete, excluding the cost of cement. (Basic rate of Granite is Rs.2500/m2)	10.00	m ²			
41	Supplying and laying marble slab of approved quality and colour of 18 mm or nearest available as per sample approved by EIC, thickness laid in CM 1:3, 15 mm thick with necessary cement grout for proper binding of slab including cost of marble slab, making the edge round, rubbing and polishing and conveyance of all materials, labour, other incidentals etc complete excluding the cost of cement.(Basic Rate 1150/m2)	2.00	m ²			
42	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand over compacted soil , compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in Charge	10.00	m ²			
ROOFING						
43	Providing and fixing/replacing on roofing/cladding with reinforced by organic fibres and/or inorganic synthetic fibres cement 6 mm thick corrugated sheets (as per IS: 14871) roofing up to any pitch and fixing with polymer coated J, or L hooks, bolts and nuts 8 mm dia. G.I. plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete (excluding the cost of purlins, rafters and trusses), including cutting sheets to size and shape wherever required.	10.00	m ²			
44	Providing and fixing/replacing on roofing/cladding at all heights, levels and locations Aluminium profile industrial troughed sheet of Alloy 31500/31000/40800, conforming to IS 1254, IS 737, IS 2676. The sheet shall be fixed using self drilling/self tapping GI screws of size 5.5x65 mm with EPDM seal complete upto required pitch in horizontal, vertical or curved surfaces i/c cutting to size and shape where required as per specifications and direction of Engineer-in-Charge. The rate shall be inclusive of all screws, seal, ridge, labour, scaffolding, machinery for fixing and approved sealant where required etc. but excluding the cost of purlins, rafters and trusses.					
a.	0.71 mm thick, the profile detail width 1044/920 mm, cover width 1000/875 mm.	15.00	m ²			

b.	0.56 mm thick, the profile detail width 1044/920 mm, cover width 1000/875 mm.	15.00	m ²			
c.	0.46 mm thick, the profile detail width 1044/920 mm, cover width 1000/875 mm.	10.00	m ²			
FINISHING						
45	Providing, mixing and applying bonding coat of approved adhesive on chipped portion of RCC as per specifications and direction of Engineer-In-charge complete in all respect. SBR Polymer (@10% of cement weight) modified cementitious bond coat @ 2.2 kg cement per sqm of surface area mixed with specified proportion of approved polymer	2.00	m ²			
46	Providing, mixing and applying SBR polymer (of approved make) modified Cement mortar in proportion of 1:4 (1 cement: 4 graded coarse sand with polymer minimum 2% by wt. of cement used) as per specifications and directions of Engineer-in-charge. Note: Measurement and payment: The pre-measurement of thickness shall be done just after the surface preparation is completed and Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding / tapping with a blunt metal instrument and/or the 75mm size cube crushing strength at the end of 28 days to be not less than 30 N/Sqmm2).	2.00	m ²			
47	Providing, mixing and applying SBR polymer (of approved make @ minimum 2% by wt. of cement used) modified plain/reinforced cement concrete for structural members having minimum characteristic compressive strength [with ordinary portland cement, coarse sand and graded stone aggregate of 10mm maximum size in proportion as per design criteria] with specified average thickness. Note: Rates shall be for finished surface area of concrete and shall include the cost of labour, concrete and appropriate approved Super-Plasticiser for rendering concrete as flowable and SBR polymer but shall exclude cost of cement, reinforcement, bond coat, Shear Keys, centering and shuttering, strutting, propping etc (Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding/tapping with a blunt metal instrument)	1.00	m ³			
48	Cleaning the RCC/ weather proofing surface (including rain water pipes/ down water pipes) by removing all wild growths and disposing the debris within initial lead of 150m etc. complete (where actual area is not possible to measure, labour will be paid as per the relevant item.)	50.00	m ²			
49	Plastering with CM floated hard and trowelled smooth including cost and conveyance of all materials, labour, curing including scaffolding etc. complete as directed by the Engineer-in- charge but excluding cost of cement.					
a.	1:4, 12mm thk.(1cement : 4Fine sand)	50.00	m ²			
b.	1:3, 20mm thk.(1cement : 3Fine sand)	10.00	m ²			
50	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	50.00	m ²			
51	Providing Chicken mesh and clamping over the concrete with sufficient overlapping including cost and conveyance of all materials, labour, all other incidentals etc. complete	5.00	m ²			
52	Painting with primer of approved quality and shade after rubbing and cleaning the surface including cost and conveyance of all materials, labour, scaffolding other incidentals, curing (wherever required) etc. complete.					

(a)	One coat cement primer on plastered surface	50.00	m ²			
(b)	One coat zinc chromite primer	30.00	m ²			
(c)	One coat zinc chromite primer	1.00	MT			
(b)	One coat wood primer	10.00	m ²			
53	Painting with ready mixed interior quality plastic emulsion paint of approved quality and colour after rubbing and cleaning the surface using wire brush, sand paper etc. wherever required including cost and conveyance of all materials, labour, scaffolding other incidentals etc. complete.					
(a)	One or more coats on old work	50.00	m ²			
54	Painting with exterior quality Acrylic emulsion paint of premium quality and colour after rubbing and cleaning the surface using wire brush,sand paper etc. including cost and conveyance of all materials labour, scaffolding other incidentals etc. complete.					
(a)	Two or more coats on old surface (@1.67ltr/10sqm)	50.00	m ²			
(b)	One or more coats on old surface(@.90ltr/10sqm)	20.00	m ²			
55	Painting with synthetic enamel paint of approved quality and colour after rubbing and cleaning the surface using wire brush, sand paper etc. wherever required including cost and conveyance of all materials, labour,scaffolding other incidentals etc. complete.					
(a)	Two or more coats on new surface	30.00	m ²			
(b)	One or more coat on old surface	25.00	m ²			
56	White cement washing after cleaning the surface including cost and conveyance of all materials, labour, other incidentals etc complete.					
a.	One coat (for old/new surface)	50.00	m ²			
57	Washing and cleaning surface of all types of buildings such as Industrial / office/residential/ compound wall etc by washing with water using hoses, brushes ,brooms etc at all heights including all labour removing off all dirt, wild growth etc disposing the debris within a lead of 150m etc complete.	50.00	m ²			
58	Supplying & replacing White metal perforated Aluminium ceilings of size 600x600 Tegular edged to the existing aluminum frame work in all floors of the building at places wherever required including and conveyance of all materials, labour charges, scaffolding and other sundries incidentals etc complete.	3.00	m ²			
STRUCTURAL STEEL WORK						
59	Fabrication & erection of Structural steel work , using Tees, angles, channels, plates,Tubes & Pipes etc. at all heights, fixed with or without connecting plate, including cutting, bending/straightening, welding/ bolting, fabrication, erecting in position, aligning the erected structure, cost of all accessories, hire for tools and plants and applying a priming coat with zinc chromate primer after mechanical buffing, etc complete. all as directed by the Engineer-in-charge.(all miscellaneous items made of steel shall be measured in the same item) complete.					
a.	Using Steel procured by the contractor	1,000.00	kg			
b.	Using departmental steel	1,000.00	kg			
60	Supplying& fixing follwing dia approved brand anchor bolts after drilling suitable holes in various depth as per the requirements, placing the bolt to correct line and level. Rate quoted should be inclusive of hire charges of drilling machine, labour, etc complete all as directed by the Engineer-in-charge.					
a.	M12x145 mm size	50.00	nos			
b.	M16x137 mm size	20.00	nos			
ALUMINIUM WORK						
61	Labour for servicing and repairs to glazed aluminium doors/windows, including replacing parts such as tower bolt, hinges,sliding window lock, rubber beading etc. complete as directed by the Engineer- in - charge. (Cost of parts will be paid separately)	3.00	m ²			
62	Providing and fixing in position openable type mosquito proof windows/ doors or exhaust openings using powder coated Aluminium frames of approved quality and shade using 25 x 25 x 1.5mm size or nearest available sections and stainless steel net, EPDM beading,locking arrangement, screws, nails etc including cost and conveyance of all materials,all labour etc.complete as directed by the Engineer in charge.	3.00	m ²			
63	Providing and fixing in position half glazed partition using 63.5x38.10x2mm thk.or nearest available size powder coated aluminium rectangular sections of approved quality and shade panelling with 8 mm thk.by prelaminated particle board and 5mm thk plain glass fixed with necessary EPDM beading including cost and conveyance of all materials,labour etc.complete.	6.00	m ²			
64	Providing fixing/replacing good quality EPDM beading 25x32mm to door/window to make air tight by fixing it using suitable quality binding material including all cost and conveyance, labour etc. complete	4.00	m			

65	Supplying and pasting sun control film to the shutter of glazed doors/windows/partitions after cutting to the required size including cost and conveyance of all materials, labour other sundries etc. complete all as directed by the Engineer- in- charge.					
a)	Check/ Strips/ frosted	20.00	m ²			
DISMANTLING/DEMOLISHING						
66	Dismantling, clearing away and carefully stacking materials useful for reuse for any thickness of wall of brick, laterite or rubble in cement mortar including disposal of debris within as per directed by EIC etc. complete.	20.00	m ³			
67	Dismantling and removing doors/windows with or without ventilators including removal of shutters, hinges, holdfasts and all other fittings and stacking materials as per directed by EIC etc complete.	2.00	nos			
68	Demolishing PCC/RCC work manually/ by mechanical means including separately removing and stacking the available reinforcement and clearing away the debris as per directed by EIC etc. complete.	5.00	m ³			
69	Demolishing and removing cement plaster of any thickness and stacks of cleaned materials available/disposal of debris as per directed by EIC etc. complete.	5.00	m ²			
70	Dismantling and removing tiles set in cement mortar including cleaning and stacking, serviceable materials and removing the debris as per directed by EIC etc. complete.	20.00	m ²			
71	Dismantling, removing and lowering wooden frame work ,planked sheeting , ceiling planks, AC/GI sheets for roofing, cladding, ceiling, wooden partition stacking serviceable materials & removing the unserviceable material as per directed by EIC etc. complete.	2.00	m ²			
72	Dismantling A.C./G.I. corrugated sheets of roofing/cladding up to height of 5metres including conveying and stacking the dismantled materials at the places pointed out by the Engineer-in-charge.	3.00	m ²			
MAN POWER SUPPLY						
73	Carrying out miscellaneous works by arranging various categories of labour as per the direction of the Engineer-in-charge.					
a.	Man(Unskilled)	300.00	Hrs			
b.	Semi skilled	50.00	Hrs			
c.	Mason, Carpenter,welder,Plumber, Painter,aluminium fabricator(Skilled)	300.00	Hrs			
SUPPLY AND STAKING						
74	Supplying and stacking at site 20mm hard granite broken stone in standard stack including cost and conveyance of all materials,labour other incidentals etc. complete for pre-measurement.	1.00	m ³			
75	Supplying and stacking at site 12mm/6mm hard granite broken stone in standard stack including cost and conveyance of all materials,labour other incidentals etc. complete for pre-measurement.	1.00	m ³			
76	Supplying and stacking at site good quality crusher sand in standard stack including cost and conveyance of all materials,labour other incidentals etc. complete for pre-measurement.	1.00	m ³			
77	Supplying and stacking at site OPC/PPC/PSC conforming to relevant IS.	15.00	T			
78	Supplying and stacking at site TOR steel reinforcement bars of different diameters conforming to relevant IS1786 .	5.00	T			

WATER SUPPLY/SANITARY/SEWAGE						
79	Supplying and fixing glazed earthenware European type water closet of white colours with 8 mm dia C.P. Brass/ S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate for European type W.C.(Hindware/Kingston/ Prima /Parko/ Marc),plastic seat with lid with controlled flush, low level cistern made of vitreous china of 10 litre (full flush) capacity-white etc complete.	1.00	nos			
80	Supplying and fixing CPVC gutter at the eve of roof for collecting rain water including necessary elbow drop,end drop,open nosil, jointer and pathy clamp for holding gutter fixing to line and level cost and conveyance of all materials labour etc. complete.					
a.	Size up 200mm	12.00	m			
81	Rectification of leakage of PVC pipes of following diameters in water lines upto length of less than 50 cms including cost of PVC pipes and specials such as couplings, bends, tees, reduced tees, unions, nipples, washers, adapters (male or female), reducers, elbows etc. including all labour and incidental charges etc. complete, all as directed by the Engineer-in-charge. (Rate quoted shall be for the rectification of one leak at a time and number of specials and length of pipe to be used may vary according to the nature of leak). All specials specified above are covered under this item but not fittings.					
a.	15 to 32 mm dia	30.00	nos			
b.	40 to 90 mm dia	30.00	nos			
82	Dismantling the following dia G.I / PVC pipes (with specials) for repairing water lines and refixing the pipe in line including cutting and making good the walls, including all labour for dismantling and refitting but excluding cost of fittings all as directed by the Engineer-in-charge.					
a.	up to 65mm dia.(considering 30 m)	2.00	m			
b.	75mm dia and above up to 110 dia	2.00	m			
83	Cutting and dismantling the MS pipe /Cast iron tyton joint pipes and transporting, stacking the same to the place pointed out by the Engineer-in-charge inside the CSL Store area etc. complete.					
a.	150mm dia----	2.00	m			
b.	125mm dia-----	2.00	m			
c.	100mm dia----	2.00	m			
d.	80mm dia-----	2.00	m			
84	Plugging GI / PVC pipe lines using suitable plugs / end caps after dismantling / cutting pipes etc, including all labour, earth work excavation up to 45 cm depth if required,cost of plugs/endcaps etc complete all as directed by the Engineer-in-charge.	5.00	nos			
85	Servicing of PVC / cast iron flushtanks excluding cost of fittings but including all labour and all incidental charges, all as directed by the Engineer-in-charge.	10.00	nos			
86	Servicing the valves of various sizes upto 150mm , replacing the damaged bolts and nuts, gland packing etc., painting the valve with synthetic enamel paint etc. complete.all as directed by the Engineer-in-charge.					
a.	C I valve up to 150 mm size	5.00	nos			
87	Servicing the hydrant valves , including replacing the damaged nuts and bolts, gland packing wherever necessary, synthetic enamel painting to the valve after servicing etc. complete all as directed by the Engineer-in-charge.	4.00	nos			
88	Conveying, threading, laying and jointing the following dia departmental G.I pipe in line with all specials including cutting and making good the walls, floors, trenching through all stratas to a maximum depth of 0.45m and refilling etc. complete, but excluding cost of cement, specials and pipes (which will be supplied departmentally free of cost) etc., all as directed by the Engineer-in-charge.					
a.	Pipes upto 25mm dia	10.00	m			
b.	above 32 mm and up to 50mm	5.00	m			
89	Clearing the chocking of outlet pipes / gully traps / urinals / wash basins etc in all the floors, including all incidental charges, dismantling,cleaning and refitting the waste pipes if necessary, all as directed by the Engineer-in-charge	10.00	nos			
90	Clearing the closet chocking without damaging to the closet as directed by the Engineer-in-charge.	10.00	nos			
91	Cleaning the pipe line and clearing the scum , sludge, floating objects etc. and disposing the same in pits which are already excavated at places pointed out by the Engineer-in-charge including backfilling the pit with the excavated earth without emitting foul smell etc. complete all as directed by the Engineer-in-charge.	15.00	m			

92	Cleaning of PVC make water storage tank (inside surface area) at all heights with brsuhes, duster etc., removal of silt, rubbish from the tank and cleaning the tank with fresh water disinfecting with bleaching powder @ 0.5gm per litre capacity of tank including marking the date of cleaning on the side of tank body with the help of paint and disposing of malba all complete as per direction of Engineer-in-Charge.	150,000.00	ltr			
93	Cleaning the Masonry / RCC overhead tank at various levels in various residential /office building by clearing all debris and moss etc. cleaning the side walls, floors and slab by wire brushing. The rate includes all labour charges, cost of fuel, hire for pump and tools etc. all as directed by the Engineer-in-charge.					
a)	Up to 10,000 litres capacity	2.00	nos			
94	Cleaning the septic tank / sullage tank by suction and clearing the scum & sludge using tankers, the sludge to be disposed outside shipyard area, including removing the cover slab and refixing the same in position and to be sealed using cement mortar, (including rate for loading,transporting and unloading),all labour for sealing etc.complete,all as directed by the engineer in charge.but excluding cost of cement. Payment for quantity of sludge accumulated in septic tank, not for quantity carried out by tanker	5.00	m3			
95	Supplying and fixing the following water supply fittings approved by the Engineer-in-charge, including cost and conveyance of all materials, all labour for fitting, all other incidental charges etc. complete for all levels.					
a)	G.M /Brass full way wheel valve (ISI heavy type)					
(i)	25mm	3	Nos.			
(ii)	40mm	1	Nos.			
(iii)	50mm	1	Nos.			
b)	C.P. Brass/G.M. stop cock (heavy type)					
(i)	15mm	3	Nos.			
(ii)	20mm	2	Nos,			
c)	Taps / Valves etc.					
(i)	15mm C.P brass SDB tap (superior quality) 400g	1	Nos.			
(ii)	15mm CP hose tap (superior quality)	1	No			
(iii)	15mm CP push cock	5	Nos.			
(iv)	15mm C.P. Pillar tap (best quality)	1	Nos.			
(v)	15 mm CP long body tap	3	Nos			
(vi)	15 mm CP short body tap	15	Nos			
(vii)	15mm CP two way taps	10	Nos.			
(viii)	15/20 mm dia angle cock	5	Nos.			
(ix)	15mm PVC taps	1	Nos			
(x)	20 mm PVC Air releasing valve	1	Nos			
d)	G.M / Brass float valve with polythene float. (ISI-Heavy type)					
(i)	20mm dia	5	Nos			
(ii)	25mm dia	1	Nos			
(iii)	40mm dia	1	Nos			
(iv)	50mm dia	5	Nos			
e)	G.M/ Brass non return check valve (Heavy horizontal/ vertical type)					
(i)	100mm	1	No			
f)	G.I Unions					
(i)	25 mm	1	Nos			
(ii)	32mm	1	Nos			
(iii)	40mm	1	Nos			
(iv)	50mm	1	Nos			
g)	G.I. Hexagonal nipples					
(i)	15mm / 20mm & 25mm size	1	Nos			
(ii)	40mm & 50mm size	1	Nos			
h)	Brass /CP Hexagonal nipples					
(i)	15mm / 20mm size	1	Nos			
(ii)	25mm size	1	Nos			
(iii)	40mm & 50mm size	1	Nos			
i)	G.I. elbows/ couplings /bends/tees					
(i)	15mm size	1	Nos			
(ii)	20mm / 25mm size	1	Nos			
(iii)	40mm size	1	Nos.			
(iv)	50mm size	1	Nos.			
j)	CP extension pieces					
(i)	15mm / 20mm size up to 100 mm long	1	Nos			
(ii)	25mm /32mm size up to 100 mm long	1	Nos.			
k)	G.I. Reducers/reducing elbows					

	(i) 32 mm to 15mm	1	Nos.			
	(ii) 50 mm to 32mm	1	Nos.			
	l) <u>SS gratings</u>					
	(i) 75mm /100 mm size	3	Nos			
	(ii) 125/150mm size	1	Nos			
	m) <u>C.P waste couplings</u>					
	(i) 32mm	5	Nos.			
	(ii) 40 mm / 50 mm	1	Nos			
	n) <u>PVC waste connections</u>					
	(i) 32mm/40mm size	5	No			
	p) <u>PVC Foot valve</u>					
	(i) 25mm / 32 mm size	1	Nos.			
	(ii) 40 mm / 50 mm size	1	No			
	q) <u>Other items</u>					
	(i) 15mm /20mm Brass hose collar	1	Nos.			
	(ii) 40mm / 50mm GI hose collar	1	Nos.			
	(iii) C.P. cup for water line fittings of 15mm and 20mm dia	1	Nos			
	(iv) Standard Spreader for urinal basin	3	Nos			
	(v) PTMT water tank connector-up to 63mm	1	Nos			
	(vi) 15mm C.P. brass adjustable shower rose- ordinary type	1	Nos			
	(vii) Shower arm 15mm/20mm dia	1	Nos			
	(viii) Hose clips for hoses up to 65mm dia hoses	1	Nos			
	(ix) CP Coat hooks	15	Nos			
	(x) CP Brass Toilet paper holder	1	Nos			
	(xi) C P Health faucet holder	1	Nos			
	(xii) PVC Shower with arm	1	Nos			
	r) <u>Brass ball valves</u>					
	(i) 15 mm sizes	5	Nos			
	(ii) 20 mm sizes	1	Nos			
	(iii) 25 mm size	5	Nos			
	(iv) 40 mm size	1	Nos			
	(v) 50 mm size	5	Nos			
	s) <u>PVC Float v/v with polythene floats</u>					
	(i) 15 mm size	1	Nos			
	(ii) 20 mm size	1	Nos			
	(iii) 25 mm size	3	Nos			
	t) <u>GI barrel nipple</u>					
	(i) Up to 25 mm size 15 cm long	1	Nos			
	(ii) 40/50 mm size 15 cm long	1	Nos			
	(iii) Up to 25 mm size 30 cm long	1	Nos			
	(iv) 40/50 mm size Up to 30 cm long	1	Nos			
96	Supplying and fixing / replacing approved quality and brand health faucet as per the direction of the Engineer-in-charge	10	Nos			
97	Supplying and fixing / replacing 15mm / 12 mm PVC inlet connection , as directed by the Engineer-in-charge.	1	Nos.			
98	Supplying and fixing the following size of approved brand (best quality) C.P concealed valve , including cost of all materials, labour charges etc. complete, all as directed by the Engineer-in-charge.					
	a) 15mm	2	Nos.			
	b) 20mm	1	No			
99	Supplying and fixing the following best quality fittings / specials for PVC flushing cistern after removing the existing, including cost of materials, labour charges, other incidentals etc. complete as per the direction of the Engineer-in-charge.					
	a) PVC syphon to suit the PVC flush tank	3	Nos.			
	b) PVC handle for PVC flush tank	3	Nos			
	c) PVC float valves for flush tanks	3	Nos			
	d) Syphon washer for PVC flush tank	3	Nos			
	e) Syphon set for cascade flush tank	3	Nos.			
100	Supplying and fixing of following size double flanged non rising type sluice valve conforming to IS:14846, class 125 with GM internals, including all labour, cost and conveyance of all materials, cost of bolts & nuts, gaskets, fixing other incidentals etc. complete all as directed by the Engineer-in-charge.					
	a) 100 NB	1	Nos			

101	Supplying, threading, laying and jointing the following dia. ' B' class G.I pipes and specials such a tees, bends, elbows, checknuts etc. with clamps, plugs, screws etc. including cutting and making good the walls, RCC floors, slabs etc. trenching through all stratas to a maximum depth of 0.45m and refilling etc. complete all as directed by the Engineer-in-charge.					
a)	15NB	2.00	m			
b)	20NB	5.00	m			
c)	25NB	5.00	m			
d)	32NB	2.00	m			
e)	40NB	2.00	m			
f)	50NB	5.00	m			
102	Supplying, fixing, laying and jointing the following dia PVC pipes with pasted type joints of approved quality using solvent cement including all cost and conveyance of all materials, sundries etc. complete. The rate shall be inclusive of supplying and fixing necessary specials etc. as per the direction of the Engineer-in-charge. (Pipe pieces of length below 50cm used for leak rectification works will not be measured under this item).					
a)	20mm dia PVC pipe (10kg/cm2)	3.00	m			
b)	25mm dia (10kg/cm2)	3.00	m			
c)	32mm dia (10kg/cm2)	3.00	m			
d)	40mm dia (10kg/cm2)	3.00	m			
e)	50mm dia (10kg/cm2)	5.00	m			
f)	63mm dia (6kg/cm2)	5.00	m			
g)	75mm dia (6kg/cm2)	5.00	m			
103	Supplying, laying and jointing CPVC pipes of approved quality and brand for hot water line with suitable specials, including cost and conveyance of all materials, necessary specials, other incidentals etc. complete for all levels.					
a)	15 mm size	50.00	m			
b)	20 mm size	2.00	m			
a)	25 mm size	25.00	m			
b)	32 mm size	2.00	m			
b)	50 mm size	2.00	m			
104	Supplying and fixing ISI marked / best quality approved brand 110 mm PVC specials at all heights including cost and conveyance, all labour and all other incidentals etc. complete all as directed by the Engineer-in-charge.					
a)	Tees, door tees, bends etc.	2.00	Nos.			
b)	Adapters, reducers, offsets, vent cowl etc.	2.00	Nos.			
c)	Elbows, door elbows, reducer elbows,etc.	2.00	Nos.			
105	Supplying and fixing ISI marked / best quality approved brand 160 mm PVC specials at all heights including cost, conveyance, labour and all other incidentals etc. complete all as directed by the Engineer-in-charge.					
a)	Tees, door tees,bends etc.	1.00	Nos.			
b)	Adapters, reducers, offsets, vent cowl etc.	1.00	Nos.			
c)	Elbows, door elbows, reducer elbows,etc.	1.00	Nos.			
106	Supplying and fixing / replacing PVC balls for the following sizes of float valves (medium quality) including all cost of materials, labour charges, other sundries etc, complete all as directed by the Engineer-in-charge.					
a)	Balls for 15/20/32 mm size float valves	3.00	Nos.			
b)	Balls for or 40/50 mm size float valves	3.00	Nos.			
107	Supplying and fixing duroplastic seat with cover of approved make in position for European Water Closet, including cost and conveyance of materials, labour charges for dismantling and fitting, all other incidentals etc. complete.					
a)	Duroplastic seat with cover of White colour	5.00	No			
108	Supplying and fixing the approved quality and brand ISI marked high level / low level PVC flushing cistern 10 litre or nearest capacity, including cost of materials, labour charges, all other incidentals etc. complete as per the direction of the Engineer-in-charge.					
a)	White colour	3.00	Nos.			
109	Supplying and fixing approved branded ((Hindware/Paryware/RAK/Cera) quality and shade 550mmx 400mm or nearest size wash hand basins of glazed earthenware, with necessary brackets, one central single lever quarter turn pillar cock with foam flow, one central 15mm PVC connection, 1 no 15 mm CP stop cock , CP brass waste of standard patterns, 32mm PVC waste pipe, cutting and making good the walls, painting the brackets two coats including cost and conveyance of all materials, labour, other incidentals etc. complete.	1	Nos.			
110	Supplying and fixing the following dia approved quality PVC flexible hose including cost and conveyance of all materials, labour charges, all other sundries etc. complete as directed by the Engineer-in-charge.					
a)	25 mm	1.00	m			
b)	32 mm	1.00	m			

MISCELLANEOUS WORKS						
111	Replacing the damaged modular table lock arrangement including cost and conveyance of all materials, all labour etc complete.(payment is for each lock arrangement)	10.00	nos			
112	Supplying and fixing best quality and approved type Automatic Hydrualic door closers (medium) as per the instructions of the department personals including all cost of materials, labour charges etc. complete as diretcted by the Engineer-in-charge	10.00	Nos			
113	Servicing Automatic door closers once in one year or at call after repairs including cost and labour for replacement of defective parts if any etc. complete all as directed by the Engineer-in-charge.	10.00	Nos			
114	Painting with Coaltar Epoxy paint , after rubbing and cleaning the surface, mechanical buffing, wire brushing to the satisfaction of Engineer-in-charge, including cost and conveyance of all materials, labour, other incidentals etc. complete.					
a.	One coat Coaltar Epoxy paint	25.00	m ²			
b.	Succeeding coat	10.00	m ²			
115	Stopping water leakage through the cracks, gaps, leakages in AC sheet/G.I. Sheet/valley gutter/downwater pipes, at all heights by pasting Bostik flashband tape/Sika multiseal tape after cleaning the surface, making dustproof and making the surface moisture free, fixing tape, tying with binding wire in the case of downwater pipes including cost of all materials, labour, tools and other incidental charges etc. complete.					
a.	Upto 0.01 m2	5	m ²			
b.	Above 0.01 m2	10.00	m ²			
116	Cleaning the valley gutters/ eaves gutter including removing all debris within CSL premises without causing any damage to the gutter.	400.00	m			
117	Providing and applying fibre reinforced elastomeric liquid water proofing membrane with resilient acrylic polymers having Sun Reflectivity Index (SRI) of 105 on top of concrete roof in three coats @10.76 litre/ 10 sqm. One coat of self-priming of elastomeric waterproofing liquid (dilution with water in the ratio of 3:1) and two coats of undiluted elastomeric waterproofing liquid (dry film thickness of complete application/system not less than 500 microns). The operation shall be carried out after scrapping and properly cleaning the surface to remove loose particles with wire brushes, complete in all respect as per the direction of Engineer-in-Charge.	50.00	m ²			
118	Providing and fixing in position approved quality white glazed earthenware flat back lipped front urinal 265 x 315 x 440mm or nearest size having a 15mm PVC connection, 32mm or nearest dia PVC waste connection and 1 no CP spreader connected to waterline and 15mm brass push cock, cutting and making good the walls and floors, including cost and conveyance of all materials, screws, plugs, labour, other incidentals, etc. complete. All PVC items are to be heavy duty type.	2	Nos.			
119	Supplying and fixing 690 x 165 x 325mm size or nearest size porcelain urinal division plate of approved quality and colour as directed by the Engineer-in-charge.	3	Nos.			
Total Amount						
Total Amount including GST						

Job Completion Period : 01 year

Seal & Sign of Authorised Person

Experience of the Tenderer for Pre-qualification criteria:

Encl:10

Average annual turnover:

SI No	Year	Turnover	Documents Attached
1	01 Apr 2019 – 31 Mar 2020		
2	01 Apr 2020 – 31 Mar 2021		
3	01 Apr 2021 – 31 Mar 2022		

Experience of previously executed orders/works:

SI No	Name & address of the organization	Value of contract	Duration of contract	
			From	To

Acceptance Criteria for Pre-Qualification: Only firms satisfying the below criteria will be technically qualified and necessary supporting documents to be submitted: -

Minimum qualification criteria for participating in the tender will be as follows:

Vendor should have previous working experiences in similar kind of job.

PRE CONTRACT INTEGRITY PACT

COCHIN SHIPYARD LIMITED

General

This pre-bid pre-contract Agreement (hereinafter called the Integrity Pact) is made on day of the month of, between Cochin Shipyard Ltd (CSL), A Government of India Enterprise under the Ministry of Ports, Shipping & Water Ways having its registered office at Cochin, Kerala, India (hereinafter called the “PRINCIPAL”) of the First part and M/s..... (hereinafter called the “BIDDER/Seller”) of the second part.

WHEREAS the PRINCIPAL proposes to procure and the BIDDER/Seller is willing to offer/has offered the stores and

WHEREAS the BIDDER is a private company / public company / Government undertaking / partnership/registered export agency, constituted in accordance with the relevant law in the matter and the PRINCIPAL is a Government of India Enterprise.

NOW, THEREFORE,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to:-

Enabling the PRINCIPAL to obtain the desired said stores/equipment/item at a competition price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement, and

Enabling BIDDERS to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and the PRINCIPAL will commit to prevent corruption, in any form, by its officials by following transparent procedures.

The parties hereto hereby agree to enter into this Integrity Pact and agree as follows:-

Commitments of the PRINCIPAL

- 1.1 The PRINCIPAL undertakes that no official of the PRINCIPAL, connected directly or indirectly with the contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting on implementation process related to the contract.

- 1.2 The PRINCIPAL will, during the pre-contract stage, treat all BIDDERS alike and will provide to all BIDDERS the same information and will not provide any such information to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to other BIDDERS.
- 1.3 The officials of the PRINCIPAL will report to the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.
- 2 In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the PRINCIPAL with full and verifiable facts and the same is prima facie found to be correct by the PRINCIPAL, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the PRINCIPAL and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the PRINCIPAL the proceedings under the contract would not be stalled.

3. Commitments of BIDDERS

The BIDDER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract

or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following:-

- 3.1 The BIDDER will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the PRINCIPAL, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.
- 3.2 The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the PRINCIPAL or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the contract of any other contract with the government for showing or forbearing to show favour or disfavor to any person in relation to the contract of any other contract with the Government.
- 3.3 BIDDERS of foreign origin shall disclose the name and address of their Indian agents and representatives, if any and Indian BIDDERS shall disclose their foreign principals or associates, if any, in the bid.
- 3.4 BIDDERS shall disclose the payments to be made by them to their Indian agents/brokers or any other intermediary, in connection with this bid/contract in the bid and the payments have to be in Indian Rupees only.

- 3.5** The BIDDER further confirms and declares to the PRINCIPAL that the BIDDER is the original manufacturer/ integrator/authorized agent of the stores/equipment/items and has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to the PRINCIPAL or any of its functionaries, whether officially or unofficially to the award of the contract to the BIDDER, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation.
- 3.6** The BIDDER, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of the PRINCIPAL or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.
- 3.7** The BIDDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.
- 3.8** The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
- 3.9** The BIDDER shall not use improperly, for purposes of competition or personal gain, pass on to others, any information provided by the PRINCIPAL as part of the business relationship, regarding plans, technical proposals and business details, including information contained in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.
- 3.10** The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
- 3.11** The BIDDER shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.
- 3.12** If the BIDDER or any employee of the BIDDER or any person acting on behalf of the BIDDER, either directly or indirectly, is a relative of any of the officers of the PRINCIPAL, or alternatively, if any relative of an officer of the PRINCIPAL has financial interest/stake in the BIDDER's firm, the same shall be disclosed by the BIDDER at the time of filing of tender.

The term 'relative' for this purpose would be as defined in section 6 of the Companies Act 1956.

- 3.13** The BIDDER shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee or the PRINCIPAL.

4. Previous Transgression

- 4.1** The BIDDER declares that no previous transgression occurred in the last three years immediately before signing of this Integrity Pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could justify; BIDDER's exclusion from the tender process.
- 4.2** The BIDDER agrees that if it makes incorrect statement on this subject, BIDDER can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

5. Earnest Money (Security Deposit)

- 5.1** While submitting commercial bid, the BIDDER shall deposit an amount **NIL** (to be specified in RFP) as Earnest Money as applicable/Security Deposit, with the PRINCIPAL through any of the following instruments:
- (i) Bank Draft of Pay Order in favor of CSL.
 - (ii) A confirmed guarantee by an Indian Nationalized Bank, promising payment of the guaranteed sum to the PRINCIPAL on demand within three working days without any demur whatsoever and without seeking any reasons whatsoever. The demand for payment by the PRINCIPAL shall be treated as conclusive proof of payment.
 - (iii) Any other mode or through any other instrument (to be specified in the RFP).
- 5.2** The Earnest Money if applicable/Security Deposit shall be valid upto the complete conclusion of the contractual obligations to the complete satisfaction of both the BIDDER and the PRINCIPAL, including warranty period.
- 5.3** In case of the successful BIDDER a clause would also be incorporated in the Article pertaining to Performance Bond in the Purchase Contract that the provisions of sanctions for Violation shall be applicable for forfeiture of Performance Bond in case of a decision by the PRINCIPAL to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.
- 5.4** No interest shall be payable by the PRINCIPAL to the BIDDER on Earnest Money/Security Deposit for the period of its currency.

6 Sanctions for Violations

- 6.1** Any breach of the aforesaid provisions by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle the PRINCIPAL to take all or any one of the following actions, wherever required:-

- (i) To immediately call off the pre contract negotiations without assigning any reason or giving any; compensation to the BIDDER. However, the proceedings with the other BIDDER(s) would continue.
- (ii) The Earnest Money Deposit (in pre-contract stage) and/or Security Deposit/ Performance Bond (after the contract is signed) shall stand forfeited either fully or partially, as decided by the PRINCIPAL and the PRINCIPAL shall not be required to assign any reason therefore.
- (iii) To immediately cancel the contract, if already signed, without giving any compensation to the BIDDER.
- (iv) To recover all sums already paid by the PRINCIPAL, and in the case of an Indian BIDDER with interest thereon at 2% above the prevailing Prime Lending Rate of State Bank of India, while in case of a BIDDER from a country other than India with interest thereon at 2% above the LIBOR (London Inter Bank Offer Rate). If any outstanding payment is due to the BIDDER from the PRINCIPAL in connection with any other contract for any other stores, such outstanding payment could also be utilized to recover the aforesaid sum and interest.
- (v) To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by the PRINCIPAL, along with interest.
- (vi) To cancel all or any other contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the PRINCIPAL resulting from such cancellation/recession and the PRINCIPAL shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.
- (vii) To debar the BIDDER from participating in the future bidding processes of CSL for a minimum period as deemed appropriate, which any be further extended at the discretion of the PRINCIPAL.
- (viii) To recover all sums paid in violation of this Pact by BIDDER(s) to any middleman or agent or broker with a view to securing the contract.
- (ix) In cases where irrevocable Letters of Credit have been received in respect of any contract signed by the PRINCIPAL with the BIDDER, the same shall not be opened.
- (x) Forfeiture of Performance Bond in case of a decision by the PRINCIPAL to forfeit the same without assigning any reason for imposing sanction for violation of this pact.

- 6.2** The PRINCIPAL will be entitled to take all or any of the actions mentioned at para 6.1(i) to (x) of this pact also on the Commission by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER), of an offence as defined in chapter IX of the Indian Penal code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.
- 6.3** The decision of the PRINCIPAL to the effect that a breach of the provisions of this pact has been committed by the BIDDER shall be binding on the BIDDER. However, the BIDDER can approach the Independent Monitor(s) appointed for the purposes this Pact.

7 Fall Clause

- 7.1** The BIDDER undertakes that it has not supplied/is not supplying similar product/systems/items or subsystems at a price lower than that offered in the present bid in respect of any other Ministry/Department of the Government of India or PSU and if it is found at any stage that similar product/systems or sub systems/items was supplied by the BIDDER to any other Ministry/Department of the Government of India or PSU at a lower price, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be refunded by the BIDDER to the PRINCIPAL, if the contract has already been concluded.

8 Independent Monitor

- 8.1** The PRINCIPAL has appointed Independent Monitors (hereinafter referred to as Monitors) for this Pact in consultation with the Central Vigilance Commission.

- (i) Shri. Jagadip Narayan Singh, IAS (Retd.),
C-54, Bharatendu Harischandra Marg,
Anand Vihar, Delhi – 110092.
Mobile: 9978405930
Email: jagadipsingh@yahoo.com
- (ii) Shri. Om Prakash Singh, IPS (Retd.),
Flat No. D-801, Prateek Stylome,
Sector-45, Noida,
Uttar Pradesh – 201301
Mob: 9818564455
Email: Ops2020@rediffmail.com

- 8.2** The task of the Monitors shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.
- 8.3** The Monitors shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.

- 8.4** Both the parties accept that the Monitors have the right to access all the documents relating to the project/procurement, including minutes of meetings.
- 8.5** As soon as the Monitors notices, or has reason to believe, a violation of this pact, he will so inform the Authority designated by the PRINCIPAL.
- 8.6** The PRINCIPAL accepts that the Monitors have the right to access without restriction to all Project documentation of the BUYER including that provided by the BIDDER. The BIDDER will also grant the Monitors, upon his request and demonstration of a valid interest, unlimited access to his project documentation. The same is applicable to Subcontractors. The Monitors shall be under contractual obligation to treat the information and documents of the BIDDER/Subcontractor(s) with confidentiality.
- 8.7** The PRINCIPAL will provide to the Monitors sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the Monitors the option to participate in such meetings.
- 8.8** The Monitors will submit a written report to the designated Authority of PRINCIPAL /Secretary in the Department/ within 8 to 10 weeks from the date of reference or intimation to him by the PRINCIPAL /BIDDER and, should the occasion arise, submit proposals for correcting problematic situations.

9 Facilitation of Investigation

In case of any allegation of violation of any provisions of this pact or payment of commission, the PRINCIPAL or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER. The BIDDER shall provide necessary information and documents in English and shall extend all possible help of the purpose of such examination/inspection.

10 Law and Place of Jurisdiction

- 10.1** This Pact is subject to Indian Law. The place of performance and jurisdiction is the seat of the PRINCIPAL.
- 10.2** A person signing Integrity Pact shall not approach the Courts while representing the matters to Independent External Monitors and shall await their decision in the matter.

11 Other Legal Actions

The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extent law in force relating to any civil or criminal proceedings.

12 Validity

12.1 The validity of this Integrity Pact shall be from date of its signing and extend upto 5 years or the complete execution of the contract to the satisfaction of both the PRINCIPAL and the BIDDER/Seller, including warranty period, whichever is later. In case BIDDER is unsuccessful, this Integrity Pact shall expire after six months from the date of the signing of the contract.

12.2 Should one or several provisions of this Pact turn out to be invalid; the remainder of this pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.

13 The parties hereby sign this Integrity Pact aton

For & on behalf of PRINCIPAL
Cochin Shipyard Limited
(Office Seal)

For & on behalf of BIDDER
(Office Seal)

Witness

1.....

2.....

Witness

1.....

2.....

* Provisions of these clauses would need to be amended/deleted in line with the policy of the BUYER in regard to involvement of Indian agents of foreign suppliers.