

Providing 4 No's of Inspection Pit in Hangar 1 & 2 with RCC and Advanced Cutting Methods at BEML, Palakkad Complex

S. NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1	Dismantling of existing industrial RCC flooring using wire sawing, wall sawing, core cutting, and mechanical breakers, including removal of embedded steel reinforcement, Designed to ensure precision cutting, controlled demolition, and minimal disturbance to adjacent structures or equipment, stacking of serviceable steel, loading and disposal of debris upto 1.5km lead, and all labour, machinery, fuel, and All works to comply with industrial safety norms, including PPE, signage, and dust control where needed with green nets, complete as directed by Engineer-in-Charge. Cost Includes of Mobilization of cutting and breaking machinery, Use of wire saws, wall saws, and core cutters for precision cutting, Removal and stacking of embedded steel, Loading, transportation, dust controlled by green nets and disposal of concrete debris.	40.00	Cum		
2	Dismantling/Demolition/Breaking of existing concrete Plain concrete cement (PCC) work at ground floor level including reinforced concrete, removing the rubbish, within a lead of 1.5Km., including Removal of steel bars, transportation, loading, unloading, etc. all complete as directed by Engineer.	6.00	Cum		
3	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) Footing and plinth beam, including getting out and disposal of excavated earth lead upto 1.5km and lift upto 1.5 m from periphery, as directed by Engineer-in-charge. Excavation in all kind of soil below NGL to 1.5m. The rate shall include the cost of bailing out of water in pits/trenches etc as directed by Engineer-in- charge., if any. No additional payment shall be made for dewatering from the pits. complete as directed by Engineer.	40.00	Cum		
4	Shoring and Timbering as planking and strutting for excavations in Foundations soil, including wales, struts, open poling boards, etc. as may be necessary and fixing and removal, complete. (Measurements to be taken of the face area timbered).Depth exceeding 1.5 m but not exceeding 3 m. complete as directed by Engineer.	80.00	Sqm		
5	Providing and laying PCC M-10 Grade using 40/20mm down size aggregates below flooring in foundations, Footing base concrete, flooring foundations, Plinth beam sides, walls or retaining walls etc, including, base preparation, proper compaction, vibration, curing, tools and tackles, necessary dewatering, etc complete at all levels as directed by Engineer-in-charge.	6.00	Cum		
6	Providing & laying of M30 Grade RMC R.C.C. (for Inspection pit) confirming to grades as specified (IS 456-2000) as per specifications using 20mm down size aggregates for concrete flooring. including sub-base and LDPE Sheet layers for the floors. Design mix to be provided. The rate shall including M30 grade concrete, dewatering, levelling, vibrating, curing, excluding form work and Steel reinforcement ,etc,. complete. In addition to above, cost also inclusive Polymer fibres of supply, at dosage of 600-900g/CuM in RMC concrete as per manufacturers recommendation dosage and procedure during laying of concrete. Note: Curing is mandatory by adopting Pond with gunny bag curing to be done and testing as per standards	33.00	Cum		

7	Supplying and Fixing of Steel reinforcement R.C.C. work for TMT bars conforming to IS : 1786(Latest) and the yield strength of 0.2% proof stress shall not to be less than 500N/Sqmm (Fe500/500D/550D Grade of steel) Rates include for Straightening, cutting, bending, placing at any level, binding in position high yield strength steel reinforcements including cost of reinforcement and binding wire, labour and scaffolding at all levels and heights etc. complete all as per Engineer in charge. Note: a) The contractor shall arrange for testing of TMT bars for physical properties from an authorized agency as per the relevant IS code. The test reports shall be submitted for our records.	2500.00	Kgs		
8	Providing and constructing 230mm thick Flyash Block work in cement mortar 1:6 using approved quality brick and average compressive strength including raking out joints, scaffolding, curing etc. complete as directed by the Engineer in charge	12.00	cum		
9	Fixing & Drilling suitable holes in RCC floor or Walls with power driven drill machine to a minimum depth of 100 to 150mm in where the steel reinforcement of 10mm dia is to be connect with existing RCC beam/wall. Steel bars shall be anchored into the existing concrete using approved chemical anchoring sealants or epoxy grouts, ensuring proper bond and development length as per standards, the work is excluding the cost of reinforcement, all complete as per directed by Engineer in charge.	1200.00	Nos		
10	Rendering/Plastering to internal/external wall surfaces 15mm thick in Cement Mortar 1:4 on fair faces of brick or concrete surfaces including finishing the surfaces even & smooth, curing, tools & tackles etc., complete all as specified and directed by Engineer in charge. Note: The rate quoted is deemed to include for providing and removal of scaffolding/staging wherever necessary.	185.00	Sqm		
11	Providing and applying of One coats of white wash to plastered and concrete surfaces including providing necessary scaffolding, surface preparation , mixing DDL binder, blue etc. complete as per IS: 712- Latest Edition. If additional coats are required to obtain uniform and smooth finish, the same shall be carried out at no extra cost.	150.00	Sqm		
12	Providing and applying Painting for one coats of exterior primer and two coats of Premium Acrylic anti fungal cement paint and shade to all the exterior surfaces as per manufacturer's specifications including providing necessary scaffolding, curing , etc. complete. If additional coats are required to obtain uniform finish, the same shall be carried out at no extra, cost as directed by Engineer In Charge. (External Surfaces)	150.00	Sqm		
13	Providing structural steel / plates / angle support for the edge protection of the cratings as per the instruction of Engineer incharge. Rate shall inclusive of cutting, laying, welding and insertion in the concrete / reinforcement. Fe 410 -W (GdeE- 250) quality-A., fabricating & fixing., complete all as specified and directed by Engineer-in-charge.	2500.00	Kgs		
14	Supplying and erecting CENTERING for Foundation, Column up to basement and Column basement to Lintel level, plinth beams/ tie beams as per specification upto Ground Level for sides and soffits including supports and strutting in all floors with all cross bracings using marine plywoods or Equivalent mild steel sheets and supported by steel props and bracing etc., complete and as directed.	290.00	Sqm		

15	Supply & Laying of 3C x 1.5 sqmm PVC insulated FRLS flexible unarmouredmultistrand copper cable with suitable MS/PVC conduit should conseal in the floor with all accessories as reqd. as per the site conditions.	200.00	Rmt		
	TOTAL(Incl. of GST)				