



GRANULATED SINGLE SUPER PHOSPHATE PROJECT, FAGMIL CHITTORGARH

NIT No.: PNP/PC107/E/008

Amendment-1 (Civil), Date : 28.05.2018



SL. NO.	REFERENCE OF BIDDING DOCUMENT				
	PART/SEC.	PAGE NO.	ITEM / CLAUSE NO.	EXISTING CLAUSE	AMENDED CLAUSE
1.	Section-B, Technical, Annexure-I.1 of Schedule of Rates (Rev.0) for Civil, Structural & Other Allied Works	04 of 47	A-05	Same as Item No. A-01, but in hard rock (requiring blasting) as defined in IS: 1200. QTY – 100 CU.M	Same as Item No. A-01, but in Hard Rock (Blasting Prohibited) – Hard rock requiring blasting as defined in IS: 1200. But where blasting is prohibited for any reason and excavation has to be carried out by chiselling, wedging or any other agreed method. QTY – 400 CU.M Refer attached : Annexure-I.1, Revised Schedule of Rates (Rev.1) for Civil, Structural & Other Allied Works

Sumit Kumar

PROJECT MANAGER
PDIL, NOIDA



SCHEDULE OF RATES

PC107-PNCV-SR-205

1

DOC. NO.

REV.

PAGE 1 OF 47







ANNEXURE-I.1

SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS



1	28.05.2018	ISSUED FOR TENDER	GC	GC	UPT
REV	REV DATE	PURPOSE	PREPD	REVWD	APPD

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)
				(In Figure)	(In Words)	
	EARTH WORKS:					
i)	The prices for all excavations are to include for removing and clearing away all shrubs, bushes, roots, removal of staked material & disposing the same from the site etc, as per direction of owner /consultant.					
ii)	The prices are also to include for all levelling and ramming foundation beds, trimming of sides and bottom grading to proper level as required mechanically or manually.					
iii)	Removal and carrying shall include for all loading, unloading and handling as may be necessary and also all necessary means of transport (Mechanical or animal or manual as required).					
iv)	The prices are also to include removal of water from all kinds of sources, either by pumping or by bailing, that may accumulate in the trenches, foundations, pits etc. The contractor shall be responsible to remove all water accumulated in foundations/pits / trenches etc, due to subsoil seepage, rainwater or from any other source. The contractor shall be fully responsible for removal of all water from its working area.					
	However, in cases where any items or materials indicated in drawings or elsewhere in N.I.T, or required to complete work should be included.					



	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	2 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)			
				(In Figure)	(In Words)				
v)	Nothing extra shall be paid on account of any lift for disposal of excavated materials.								
vi)	Where excavation are made in excess of the depth required, the contractor shall at his own expense fill up to the desired level with lean concrete of mix 1.5.10 as suitable in consultation with owner/consultant								
vii)	The prices are also to include for the removal of water caused by rains/seepage etc. either by pumping or by bailing out that may accumulate in the trenches and foundation pits etc. The proper cleaning of trenches mechanically and manually as required.								
viii)	The tentative quantity of major item of civil work has been considered, all other items required to be executed but not covered here has to be envisaged by Bidder to complete the work in all respect and to make it functional shall to include in price. Nothing extra will be entertained. The item and quantity are indicative and may vary on either side while actual execution at site .Bidder to envisage and include while pricing/quoting.								
A	EXCAVATION, BACKFILLING, SITE GRADING AND LEVELLING WORKS								
A-01	Excavation to required side slopes below ground level in all kinds of soils as defined in IS: 1200 for foundations, isolated pits, plinth beams, walls, trenches for pipelines /cables, pipe sleepers, drains, etc., to the required levels and grades in both dry and wet conditions, including dressing of sides and	Cu.M	800						
	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	3 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	



SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)
				(In Figure)	(In Words)	
	ramming of bottoms, getting out excavated earth with lift upto 1.50 M and disposal of surplus excavated materials within a lead of 50 M including stacking, levelling and dressing etc., including providing temporary supports to all service lines such as overhead and underground water, sewage and drain pipes, cables etc. and shoring and strutting including dewatering wherever necessary, complete in all respects as per direction of Engineer-in-Charge.					
A-02	Same as Item No. A-01, but lift from 1.5 M to 3.0 M.	Cu.M	250			
A-03	Same as Item No. A-01, but In Ordinary Rock (not requiring blasting, wedging or similar means) as defined in IS: 1200 including disintegrated rock (Copra).	Cu.M	400			
A-04	Same as Item No. A-03, but lift from 1.5 M to 3.0 M.	Cu.M	200			
A-05	Same as Item No. A-01, but in Hard Rock (Blasting Prohibited)– Hard rock requiring blasting as defined in IS: 1200. But where blasting is prohibited for any reason and excavation has to be carried out by chiselling, wedging or any other agreed method.	Cu.M	400			
A-06	Same as Item No. A-05, but lift from 1.5 M to 3.0 M.	Cu.M	50			

	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	4 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	



SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)
				(In Figure)	(In Words)	
A-07	Disposal: Removal and carriage of surplus excavated earth, debris, etc., from the site of work to other areas anywhere within the factory/plant battery limits beyond the initial lead of 50 M and spreading and levelling the same in layers not exceeding 20 cm thickness including loading and unloading as per the direction of Engineer-in-Charge.	Cu.M	800			
A-08	Backfilling: Filling with available excavated good earth (excluding rocks / boulders), as approved and directed by Engineer-in-Charge, in trenches, plinth, under floors, sides of foundation etc., at all depths in layers not exceeding 200mm. in thickness including consolidating and dressing each deposited layer by ramming and watering with lead upto 50 metres, complete in all respects.	Cu.M	900			
A-09	Back filling of foundation pits with approved quality excavated earth from borrow areas outside the plant boundary in layers not exceeding 200mm of compacted thickness including watering, compaction so as to achieve a proctor density of not less than 98% including excavation in borrow pits, loading, unloading, transportation, all labour, equipment, all charges including royalty, taxes, octroi etc. Complete as directed by the Engineer.	Cu.M	100			
	SITE GRADING AND LEVELLING WORKS.					
A-10	Striping and grading the area including earthwork in excavation / cutting over the entire area within the Plant					

	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	5 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	



SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)
				(In Figure)	(In Words)	
	battery limits at all heights / depths and widths to the required Grade Level including clearing jungle, up-rooting of rank vegetation, grass brush wood, trees and saplings of girth upto 30 cm. measured at a height of 1.0 metre above ground level, removal of rubbish upto a distance of 50 metre outside the periphery of the Plant Battery Limits, disposal of excavated earth with initial lead within the Plant Battery Limits for all lifts and watering, ramming, levelling, dressing the excavated / graded top surfaces complete in all respects as per Specifications, approved drawings and as directed by the Engineer-in-Charge.					
	a) In all types of soil	Cu.M	25000			
	b) In Ordinary Rock (not requiring blasting, wedging or similar means)	Cu.M	5000			
	c) In Hard Rock (By means of controlled blasting)	Cu.M	100			
A-11	Extra for removal, carrying and disposal of excavated surplus earth and unsuitable materials including rock pieces etc., with lead upto 1.0 km. after the initial lead within the Plant Battery Limits including loading unloading depositing each layer, spreading and levelling the areas properly etc., complete in all respects as directed by Engineer-in-Charge	Cu.M	200			
A-12	Filling / banking the proposed area with available excavated good earth to the required grade levels in layers not exceeding 20 cm in depth including loading unloading, filling,					

	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	6 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	



SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)
				(In Figure)	(In Words)	
	spreading, breaking clods, watering, levelling at site area, consolidating / compacting each deposited layer by ramming, rolling each layer with half tonne roller or wooden / steel rammers and rolling every third layer and the top most layer with minimum 8.0 Tonne capacity power roller upto 95% of maximum dry density of filling materials, dressing up the embankments / graded area within the plant battery limits and at all lifts including clearing jungle uprooting of rank vegetation, grass, brush wood, trees, sapling of girth upto 30 cm assumed at a height of one metre above ground level, surface dressing removal of rubbish / debris upto a distance of 50 metre outside the periphery of the plant battery limits leaving the site clear and providing tests for required compaction of the surfaces etc.,					
	a) With earth excavated within the area	Cu.M	25000			
	b) With borrowed earth from outside the plant area	Cu.M	1000			
	CONCRETE WORKS					
B	PLAIN CEMENT CONCRETE (PCC)					



	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	7 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)
				(In Figure)	(In Words)	
B-01	Providing and laying Plain Cement Concrete of 1:4:8 (1 cement: 4 coarse sand: 8 graded stone aggregate 20 mm nominal size) machine mixed and mechanically vibrated in foundations and plinth beams, for rafts, footings, bases of pedestals, trenches and pits, machine and equipment foundations, pile caps, pipe supports, etc., including all necessary cost of centring and shuttering, complete in all respects as per drawing, specification and direction of Engineer-in- Charge. (Shuttering shall be deemed to be included in the rate).	Cu.M	190			
B-02	Providing and laying plain cement concrete, machine mixed, in string or lacing courses, coping over parapet and boundary walls, bed blocks, anchor blocks, plain window sills and the like at all heights including all necessary cost of centring and shuttering etc. with plain cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size).	Cu.M	10			
B-03	Supplying & Laying Plinth Protection with 100mm thick Plain Cement Concrete of nominal mix 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size).with minimum cement content as per specification, 20 mm downgraded coarse aggregate laid over base formed with broken bricks or rubble compacted to a thickness of 150mm and well compacted soil to desired slopes as indicated on drawing including scaffolding, shuttering, vibrating, curing, finishing etc. complete as per specification and as directed by the Engineer. (Shuttering shall be deemed to be included in	Sq.M	350			



	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	8 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	



SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)
				(In Figure)	(In Words)	
	the rate).					
B-04	Providing, mixing, laying Screed Concrete of grade M-15 with 12.5mm downgraded coarse aggregate over RCC roof including curing, laying to slope, finishing top surface to receive water proofing treatment complete as per specifications/drawings and as directed by the Engineer.	Cu.M	40			
C.	REINFORCED CEMENT CONCRETE (RCC) FOR FOUNDATION AND PLINTH					
C-01	Providing and laying in position and curing design mix reinforced cement concrete of grade M-25 (using 20 mm. nominal gauge graded stone aggregate) with minimum cement content of 300 Kg/Cu.M of concrete, machine mixed and mechanically vibrated and finished to a fair face but excluding the cost of centering, shuttering and reinforcement in foundations and in all other structures below and upto ground level (rafts, footings, bases of columns, pedestals, beams, columns, equipment foundations, pile caps, box sections, pipe supports, etc.), including conveying, staging, laying, compacting and curing etc complete as per drawings & specifications and direction of the Engineer-in- Charge.	Cu.M	400			
C-02	Same as Item No. C-01, but in walls of any thickness, shape or size including attached buttresses, pilasters and their caps and bases.	Cu.M	100			

	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	9 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	



SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)			
				(In Figure)	(In Words)				
C-03	Providing and laying in position design mix Cement Concrete of M20 grade for reinforced concrete work for Grade Floor Slab using graded crushed stones (20mm down) with reinforcement at top & bottom (bothways) including conveying, staging, laying,vibrating, compacting and curing etc complete as per drawings & specifications and direction of the Engineer in charge.	Cu.M	230						
C-04	Manufacture and erection in position reinforced Pre-Cast Concrete units of every description, shape, size in M-25 grade concrete with minimum cement content as per specification and approved drawings including all pockets, slits, slots, covers slabs, etc. for lifting hook or surface drainage etc. including cost of all labour, material, equipment, transportation, loading, unloading, curing, shuttering etc. with formwork, centring, pre-fabrication moulds for manufacture of pre-cast units, MS erection fixtures etc. for laying at any elevation but excluding the cost of steel, reinforcing bars and their binding etc. all complete as per specification and as directed by the Engineer (Fixing steel reinforcement will be paid separately under relevant items).	Cu.M	10						
	FOR SUPERSTRUCTURE								
C-05	Providing and laying in position and curing design mix reinforced cement concrete of grade M-25 (using 20 mm. nominal gauge graded stone aggregate) with minimum cement content of 300 Kg/Cu.M of concrete, machine mixed and mechanically vibrated and finished to a fair face but	Cu.M	600						
	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	10 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	

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				(In Figure)	(In Words)	
	<p>excluding the cost of centering, shuttering and reinforcement in super-structures above ground level, at all elevations, in all kinds of work (columns, pillars, posts, attached pilasters, portals, struts, inclined posts, pedestals for equipments and similar vertical members, beams, walls, slabs, roofs, staircase etc), including conveying, staging, laying, compacting and curing etc complete as per drawings & specifications and direction of the Engineer-in- Charge.</p> <p>Note :</p> <p>i) Shuttering & Fixing steel reinforcement will be paid separately under relevant items.</p> <p>ii) Bolts and inserts are payable separately under relevant items, however pockets and cutouts are not payable extra and shall be deemed to be included in the rate.</p>					
C-06	Same as Item No. C-05, but in walls of any thickness, shape or size including attached buttresses, pilasters and their caps and bases.	Cu.M	200			
D	REINFORCEMENT AND EMBEDMENTS					
D-01	Supplying, cutting, bending, hoisting, placing in position and binding with 18 SWG annealed wire, high yield strength deformed reinforcements bars of Grade Fe 500D as per IS: 1786 for all R.C.C. works including all necessary handling at all heights and depths complete in all respects and as per direction of the Engineer-in Charge. (Fe 500D of only TATA/SAIL/JSW/RINL make steel to be used)	MT	220			



	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	11 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)			
				(In Figure)	(In Words)				
D-02	Anchor Bolts: Supplying, fabricating and fixing in position M.S. holding down bolts assembly consisting anchor bolts, heads, nuts, washers etc., and the like including embedding in cement concrete/R.C.C. works as per approved drawings complete in all respects including one coat of approved quality anti-corrosive paint over a coat of approved quality primer. (All material supply is in contractor's scope.)	Kg.	100						
D-03	Insert Plates: Supplying, fabricating, erecting and fixing in position to line and level all M.S Inserts such as anchor plates, angles, tees, channels, plates with lugs, hooks, sleeves etc. embedding in cement concrete /R.C.C. works at all levels including welding, bolting, drilling, cutting, scaffolding, holding in position, providing one coat of approved anti-corrosive paint and / or Bituminous paint on exposed surfaces, etc. all complete in all respects and as per specifications, drawing and as per direction of Engineer-in-Charge.(Templates if any required for fixing the inserts will not be paid for).	Kg	100						
D-04	Supplying, fabricating and fixing in position at all heights M.S. Angle iron nosing to steps and wall corners and the like with welded anchors including fixing into concrete all as shown in the approved drawing, complete in all respects and as per drawings, specification & directions of Engineer in charge	Kg	100						
D-05	Providing, supplying and fixing in position in line and level MS black medium quality Pipe Sleeves with lugs/ puddle collar pipe pieces including bends etc. as per drawings of following								
	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	12 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	



SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)
				(In Figure)	(In Words)	
	sizes as embedment in masonry and concrete complete as per direction of the Engineer-in-Charge.					
	a) 80 mm NB	RM	10			
	b) 100 mm NB	RM	10			
	c) 150 mm NB	RM	10			
D-06	Providing, supplying and laying hot applied Bitumen Mastic Joint Sealing Compound conforming to IS:-1834 of Grade A for joints at all levels including application of primer in concrete upto 25mm wide and 25mm deep, including labour, material, equipment, handling, transportation, testing, cleaning, mixing, heating, pouring / injecting sealing compound in gaps and joints, at all levels, all complete, as per specifications, drawings and instruction of the Engineer.	RM	10			
D-07	Providing and fixing in position shalitek board in expansion joints or around machine foundations or in floors with necessary shalitek sealing compound, complete in all respects as per direction of Engineer-in-Charge :					
	a) 25 mm thick.	Sq.M	5			
	a) 50 mm thick.	Sq.M	5			
D-08	Supply of Grouting materials and grouting of column bases & equipment foundations using following flowable grout complete as per specification and instruction of Engineer (No					

	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	13 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	



SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)
				(In Figure)	(In Words)	
	formwork to be paid separately).					
	a) Ordinary Grout with 1:2 cement : sand mix	Cu.M	1			
	b) Non shrink grout of approved make (Conbextra GP1 or equivalent)	Cu.M	1			
	c) Non shrink grout of approved make (Conbextra GP2 or equivalent)	Cu.M	1			
E	SHUTTERING :					
E-01	Providing, fabricating, erecting and fixing in position with bolts and nuts, nails and ties, etc., centring and shuttering materials true to line and level, including strutting, propping, staging etc. with necessary bracing in all axes to give a stable assembly including chamfering the corners of columns and beams etc., wherever required including making joints in the shuttering fully leak-proof, including striking, dismantling and removing the aforesaid assembly after concreting is over, including all labour and materials complete in all respects and as per direction of Engineer-in-Charge :					
a.	FOR FOUNDATION AND PLINTH					
(i)	Foundation and plinth in rafts, footings, columns, pedestals, beams, walls, slabs, machine and equipment foundations, pile caps and pipe support foundations, etc.	Sq.M	1800			

	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	14 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	



SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)
				(In Figure)	(In Words)	
b.	FOR SUPERSTRUCTURE:					
(i)	Columns, beam wall, roof, pillars, posts, struts, inclined posts, attached pilasters, portals and similar vertical members.	Sq.M	1500			
(ii)	Walls of any thickness, height and shape including attached buttresses, pilasters, and their caps and bases, etc.	Sq.M	200			
iii)	Lintels, beams, portal beams, brackets, girders, cantilever beams, suspended floors, roofs, staircase roofs and their supports, balconies, staircase waist and landing slabs and steps, etc.	Sq.m	2000			
iv)	Chajja, vertical and horizontal fins, roof gutters, drop walls, railing, parapet wall, window sills, etc.	Sq.m	700			
E-02	Same as Item No. E-01 but for providing shuttering on curved surfaces (curved on plan upto a mean radius not exceeding 6 metres) for walls, columns, beams, equipment/machine foundations etc.:					
	a) In foundation and plinth.	Sq.m	50			
	b) In Superstructure	Sq.m	100			
F	BRICK, PLASTERING AND PAINTING WORKS					
F-01	Providing and laying in position Brick wall 230mm thick with locally available best quality burnt brick work using bricks of class designation 7.5 in cement mortar 1 : 6 (1 cement: 6					

	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	15 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	



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	coarse sand) for all kinds of works, including all labour, material, equipment, handling, transportation, etc., mixing mortar, laying bricks, raking out joints, scaffolding, staging, curing, dressing, forming expansion joint (without filling), including making holes / openings upto 0.1 m2 etc., all complete, as per specifications, drawings and instruction of the Engineer.					
	a) Upto foundation and plinth level.	Cu.M	50			
	b) Superstructure at all heights.	Cu.M	750			
F-02	Providing and laying in position half brick masonry / 115mm thick with locally available best quality burnt brick work using bricks of class designation 7.5 in cement mortar 1 : 4 (1 cement: 4 coarse sand) with two numbers 8 millimetre diameter M.S. reinforcement at every third course embedded in superstructure at all heights for all kinds of works, including all labour, material, equipment, handling, transportation, etc., mixing mortar, laying bricks, raking out joints, scaffolding, staging, curing, dressing, forming expansion joint (without filling), including making holes / openings upto 0.1 m2 etc., all complete, as per specifications, drawings and instruction of the Engineer. (The rate shall include the cost of reinforcement).	SQ.M	100			
F-03	Providing and constructing brick bands 7.5 mm thick 115 mm projected from wall face using bricks of class designation 7.5 laid in cement mortar 1:6 (1 cement: 6 coarse sand) at all heights including all labour, material, equipment, handling,	RM	10			

	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	16 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	



SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)
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	transportation, etc., mixing mortar, laying bricks, raking out joints, scaffolding, staging, curing, dressing, etc., all complete, as per specifications, drawings and instruction of the Engineer.					
	PLASTERING					
F-04	Providing 15mm (9mm thick in CM 1:5 + 6mm thick in CM 1:6 with approved water proofing compound) cement plaster on exterior surfaces in two layers vertical, horizontal or curved upto any elevation and heights including the cost of all materials, equipment, labour, scaffolding, curing, as per specification and the direction of Engineer-in-charge.	Sq.M	3500			
F-05	Providing 12mm thick cement plaster on interior surfaces vertical, horizontal or curved upto any elevation and heights in cement mortar 1:6 including the cost of all materials, equipment, labour, scaffolding, curing, chicken wire mesh etc. as per specification and the direction of Engineer-in-charge.	Sq.M	5000			
F-06	Providing 6mm thick cement plaster on ceiling wherever directed by the Engineer in 1:3 (cement: sand) mortar including the cost of all materials, equipment, scaffolding, chicken wire mesh etc. complete.	Sq.M	1350			
F-07	Providing 25mm dia. Drip Course at various elevations to parapet, chhajja, window, door heads, etc. with all materials, scaffolding, curing, etc. complete as per drawings and direction of Engineer-in-charge.	RM	50			

	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	17 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	



SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)
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F-08	Providing plaster of paris punning over the plastered surfaces (walls & ceilings) with average 2mm thick.	Sq.M	400			
	PAINTING					
	Note: The prices for painting are to include all preparatory work required for the treatment described, finishing to approved tints touching up all defective portions and leaving all clean and perfect complete, with 1st quality paint.					
F-09	Providing and applying two (2) coats of water proof cement paint over walls(external surfaces) of plastered surfaces as per IS 5410 of approved brand and manufacturer (Snowcem or equivalent approved by the Engineer-in-charge) and in approved shades to plastered surfaces at all elevation and heights including cleaning and preparing the wall surface, scaffolding, curing, Cleaning stain from floors, walls, glass panes etc. all complete as per specifications, drawings, and instructions of the Engineer.	Sq.M	3500			
F-10	Providing and applying Oil Bound Distemper conforming to IS Standards of approved make colour shade to new surfaces in three (3) coats on internal surfaces as per specification and direction of Engineer including scaffolding. Preparing the surface etc. complete at all elevations and heights.	Sq.M	6000			
G	STRUCTURAL STEEL					



	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	18 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	



SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)
				(In Figure)	(In Words)	
G-01	Supplying, transporting, de-rusting, fabricating, erecting, hoisting and fixing in position with necessary welding and/or bolting with MS bolts conforming to property class 4.6 of IS: 1367 at all heights as per approved fabrication drawings of all types of structural steel work in columns, portals, girders, lattice girders, beams, crane girders, M.S rails, monorails, bracings, trusses, purlins, rafters, side runners, sag rods, hand railings, staircase stringers and steps, walkway, toe-plates, floor grids, sag rods with M.S. rounds, side walling, conveyor gantries, trestle for pipe and cable racks, gusset plates, etc., either made of rolled steel joists, channels, angles, tees, flats, plates or built up from plates and/or rolled steel sections including necessary site and shop fasteners, complete in all respects as per approved fabrication drawings, standards and direction of Engineer-in-Charge :					
a)	With providing and applying two coats of chlorinated rubber based high build zinc phosphate primer of approved brand and manufacture compatible to chlorinated rubber paint at a dry film thickness of 50 micron per coat on structural steel work after preparation of surfaces including providing and applying two coats of chlorinated rubber based paint of approved colour, brand and manufacture at a dry film thickness of 50 microns per coat on structural steel work complete in all respects as per specifications and direction of Engineer-in-Charge. (Surface preparation by sand blasting/ power driven brushes will be paid separately).	MT	20			

	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	19 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	



SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)
				(In Figure)	(In Words)	
G-02	Same as Item No. G-01a, but bolting with high tensile bolts conforming to property class 8.8 of IS: 1367 complete as per drawings and direction of Engineer-in-Charge.	MT	10			
G-03	Supplying, transporting, de-rusting, fabricating, erecting, hoisting and fixing in position structural steel work in cat ladders and cages at all heights including brackets, cleats, plates, rungs, chain, pins, hinges, etc., framed, bolted and/or welded together and fixed in position including necessary plugs and pluggings and painting complete in all respects and as per direction of Engineer-in-Charge :					
a)	With providing and applying two coats of chlorinated rubber based high build zinc phosphate primer of approved brand and manufacture compatible to chlorinated rubber paint at a dry film thickness of 40 micron per coat on structural steel work after preparation of surfaces including providing and applying two coats of chlorinated rubber based paint of approved colour, brand and manufacture at a dry film thickness of 50 microns per coat on structural steel work complete in all respects as per specifications and direction of Engineer-in-Charge. (Surface preparation by sand blasting/ power driven brushes will be paid separately).	MT	2			
G-04	Supplying, transporting, fabricating as per approved fabrication drawings 25 mm. to 35 mm. thick M.S. grating made out of M.S flats With 86 microns thick hot dip galvaning coat as main members and Tor Steel bars as secondary members, all welded together to form a perfect	MT	1			

	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	20 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	



SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)			
				(In Figure)	(In Words)				
	mesh including getting those grating planks inspected and approved by Client/ Consultant, transporting to site, erecting and fixing in position these grating planks at all heights with necessary G.I. clips/ G.I. clamps tack welded for making floors, platforms, stair steps, etc., as required at site, providing and applying painting as per drawings and direction of Engineer-in-Charge (The rates shall include cost of G.I. clips/ clamps. The Contractor may procure gratings from grating manufacturer approved by Engineer-in-Charge. The rates shall also include all charges incurred during inspection and testing) :								
G-05	Supplying, transporting, cutting and fixing in position at all heights steel work in M.S. chequered plates in floors, steps, landing, covers over trenches, etc., with necessary bolts, nuts, washers, drilling holes, welding, etc., wherever necessary as per drawing including painting complete in all respects and as directed by Engineer-in Charge :								
a)	Two coats of chlorinated rubber based paint at dry film thickness of 50 microns per coat over two coats of high built zinc phosphate primer compatible to chlorinated rubber based paint at dry film thickness of 50 microns per coat.	MT	1						
G-06	Providing and fixing 900 mm high hand railing above R.C.C. floor/ steps, comprising of 20 mm square vertical main bars at every 250 mm including and 12 mm square vertical intermediate bars at every 250 mm c/c, 2 nos. 12 mm square horizontal bars in the middle, 50 X 6 mm M.S. flat welded to main vertical bars and providing 50 mm wide 20	RM	10						
	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	21 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)			
				(In Figure)	(In Words)				
	mm thick P.V.C. lining etc., bottom end of main vertical bars having split ends including welding the assembly and embedding the main bars in cement concrete by grouting in pockets including making notches/holes wherever required and making good the floors/steps after fixing the railing and applying two coats of approved anti-corrosive paint over a coat of suitable primer complete in all respects as per drawings and direction of Engineer-in-Charge. (Measurement shall be made for pattern length.)								
G-07	Providing and fixing Edge Protection Angle of 50x50x6 mm (minimum) including nelson studs, lugs, primer painting, shim plates if required complete with alignment and matching the top of steel level with finished floor level.	MT	2						
G-08	Supplying, fabricating and erecting MS gate built with galvanised tubes conforming to IS: 1161 of 50mm dia frames including galvanised flats 25x6mm connection bolts and nuts 8mm dia welded wire fabric (50 x 50mm square mesh welded to galvanised flats 25 x 6mm bottom rollers, guide track, locking arrangement from both sides, handles, stoppers, hold fasts, pin clamps, MS aldrops etc. complete.	Sq.M	60						
G-09	Providing and fixing GI rungs in concrete/brick walls at all elevations including @ zinc coating shall not be less than 900 g/sqm all complete.	KG	10						
H	FLOORING								
	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	22 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	



SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)
				(In Figure)	(In Words)	
H-01	Supplying and laying hard core under floors including watering, ramming, blinding and well consolidating with broken stone aggregates 90 mm to 40 mm in layers of maximum compacted thickness of 100 mm including filling the voids with smaller stone chips and with blinding materials fine river sand. (Payment shall be made for finished thickness of hard core) :					
	a) Consolidation by road roller	Cu.M	600			
	b) Consolidation by hand/ mechanical rammers	Cu.M	100			
H-02	Supplying and providing brick on edge flooring using brick of class designation 7.5 in cement mortar 1: 6 (1 cement : 6 coarse sand) on a bed of 12 mm cement mortar, including filling the joints with same mortar, over compacted earth on both sides of approached slab, complete in all respects as per direction of E.I.C.	Sq.M	5000			
H-03	Providing and laying 40mm thick cement concrete flooring in 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 10mm nominal size) including cement slurry, finishing of joints at maximum two (2) metres interval, or any surface, and including 40mm wide and 4mm thick glass strip placed between the panels including labour, materials and equipment and curing including scouring of surface providing necessary shape etc. complete in all respects and in accordance with specifications and direction of Engineer.	Sq.M	100			

	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	23 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	



SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)
				(In Figure)	(In Words)	
H-04	Providing and laying 50mm thick cement concrete flooring with metallic concrete hardener topping (ironite), in workshop & ware house building at various elevations, consisting of under layer 28mm average thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 10mm nominal size) and top layer 12mm thick metallic cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 stone aggregate 6mm nominal size) by volume (Ironite shall be added in mix @ 1.5 kg / m2) including finishing of joints at maximum two (2) metres interval, or any surface, and including 40mm wide and 4mm thick glass strip placed between the panels including labour, materials and equipment and curing including scouring of surface providing necessary shape etc. complete in all respects and in accordance with specifications and direction of the Engineer.	Sq.M	350			
H-05	Providing, supplying and laying 10mm thick non-skid fully vitrified tiles flooring of following sizes similar to "MARBONITE", "FERRASTONE" of "BOSS Profile Ltd", (overall 40 mm thick) laid over under bed of 1:4 cement coarse sand in pattern with different colour of tiles including all labour, materials, equipment, scaffolding, handling, transportation, cleaning, jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc. etc. complete in all respects and in accordance with specifications and direction of Engineer.					
	a) Flooring : Non-skid fully vitrified tiles for floor (300 mm x 300 mm x 10mm)	Sq.M	100			

	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	24 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	



SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)
				(In Figure)	(In Words)	
	b) 300 mm wide tiles for skirting/dado etc (t=10mm)	Sq.M	200			
H-06	Providing, supplying and laying Vitrified finish ceramic tile flooring of following sizes (thickness to be specified by manufacturer) similar of first quality conforming to IS: 13755 of NAVEEN, NITCO, ORIENT, ORIENT, KAJARIA or equivalent make in all colours, shade and design as approved by E.I.C. laid on 20mm thick cement mortar (1 cement: 4 coarse sand) including pointing the joints with white cement and matching pigment of matching shade to match the level of existing floor complete in all respect at any level etc. complete as per specifications , drawings and as per approved floor design from the Engineer.					
	a) Flooring : Vitrified finish ceramic floor tiles for floor (600 mm x 600 mm)	Sq.M	600			
	b) Flooring : Vitrified finish ceramic floor tiles for skirting/dado etc 600 mm wide	Sq.M	100			
H-07	Providing and laying 1st quality ceramic glazed tiles 300mm x 300mm conforming to IS: 13753 of minimum thickness 5mm of approved make like KAJARIA, NITCO, ORIENT, SOMANY or equivalent make on walls in all colours, shade and design as approved by E.I.C. over 12mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3Kg per Sq.m. including pointing in white cement mixed with pigment of matching shade complete.	Sq.M	100			

	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	25 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	



SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)
				(In Figure)	(In Words)	
H-08	Providing and laying in position at all heights 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size, approved shade, colour and texture laid with necessary opening (area less than 0.5 sqm) over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete in all respects and in accordance with specifications and direction of Engineer.					
	a) Granite of any colour and shade, area of slab upto 0.5 Sq.m.	Sq.M	10			
	b) Granite of any colour and shade, area of slab over 0.5 Sq.m.	Sq.M	5			
I	DOORS, WINDOWS, VENTILATORS, ROLLING SHUTTERS (Rate shall be inclusive of cost of all required hardware)					
I-01	Providing, erecting and fixing in position at all heights steel glazed windows and ventilators conforming to IS: 1038 and IS: 7452 of standard rolled steel sections, joints mitred and welded with 15 X 3 mm. lugs, 10 cm. long, embedded in cement concrete block 15X10X10 cm. of 1: 3: 6 (1 cement: 3 coarse sand: 6 graded stone aggregate 20 mm. nominal size) or with wooden plugs and screws, or with rawl plugs					

	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	26 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	



SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)
				(In Figure)	(In Words)	
	and screws, or with fixing clips, or with bolts and nuts, or frames welded to adjoining structural steel members as required, including providing and fixing 4 mm. thick good quality glass panes with glazing clips and special metal sash putty of approved make, necessary hinges or pivots, peg stays, pressed steel handles, etc., including providing and applying painting (Rate shall be inclusive of cement concrete blocks) :					
a)	With two coats of synthetic enamel paint of approved quality over two coats of red oxide zinc chromate primer conforming to IS-2074 :					
	i) Openable windows and ventilators (top hung or centre hung).	Sq.M	220			
	ii) Partially fixed and partially openable windows and ventilators (top or centre hung).	Sq.M	130			
	iii) Fixed type windows and ventilators.	Sq.M	50			
I-02	Providing, fabricating, erecting and fixing in position at all heights M.S. sheet steel door shutter with frames and diagonal braces of M.S. channel, angle, gusset plates at junctions and corners including M.S. lugs, pivotal arrangement, hinges, tower bolts, locking arrangements, handles and welded with 15 x 3 mm lugs 10 cm. long with steel lugs embedded in cement concrete block 15 x 10 x 10 cm. size of cement concrete 1: 3: 6 (1 cement: 3 coarse sand: 6 graded stone aggregate 20 mm nominal size) or with					

	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	27 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	



SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)
				(In Figure)	(In Words)	
	bolts and nuts or frame welded to adjoining structural steel members as required including providing and applying painting complete in all respects as per drawings and direction of Engineer-in-Charge (Rate shall be inclusive of cement concrete block) :					
	a) With two coats of synthetic enamel paint of approved quality over two coats of red oxide zinc chromate primer conforming to IS-2074.	Sq.M	60			
I-03	Providing, fabricating by welding, erecting and fixing in position steel tubular two leaf ornamental gate approximate 2.25 metre clear height, each leaf comprising of outer frames with 50 mm dia. (Heavy Grade) steel pipes, one 50 mm dia. (Heavy grade) continuous diagonal pipe bent to required shape, one number 3 mm thick semi-circular plate of approximate 500 mm radius, 16 mm dia. M.S. rods wound around the gate frame in coil pattern with pitch of the coil approximately 125 mm including flattening of the tubes where required, welding all complete parts one another including necessary hinge plate arrangement having 20 mm hinge pin, providing nuts, washers, locking pins etc., including locking arrangement, handles, and applying two coats of approved anti-corrosive paint of desired shed and colour over a coat of approved quality primer complete as per approved drawing (The rates shall be quoted for completed items).	MT	2			



	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	28 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)
				(In Figure)	(In Words)	
I-04	Providing and fixing 900 mm high aluminium hand railing above RCC floor/roof, steps, etc. at all heights comprising of 38.10 mm X 6.35 mm vertical main flat bars at every 250 mm centre to centre and 12.70 mm square vertical intermediate bars at every 250 mm centre to centre, 2 Nos. 25 mm X6 mm horizontal flat bars in the middle, 88.90 mm X 3.18 mm thick irregular flat fixed to the top of the main vertical bars all made out of aluminium alloys, INDAL 50S or its equivalent. Bottom end of main vertical bars bend to shape and embedding them in cement concrete by grouting in pockets including making notches/holes wherever required and making good the floor / roof, steps, etc. after fixing the railing complete in all respects as per drawing and direction of EIC (measurement shall be made for pattern length).	RM	30			
I-05	Providing, erecting and fixing best quality glazed powder coated Aluminum doors with Glazed aluminum partition on the sides from approved manufacturer's using structural frame with handles, hinges, latches, fittings, hold fast and locking arrangements etc. and with prelaminated MDF board exterior grade flush shutters of approved make and directions including supplying and fixing heavy duty morticed cylinder lock to single and double leaf doors with duplicate set of keys and master key operable from one side only and other side by handle or Knob including labour, material, equipment, scaffolding etc. complete.					



	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	29 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)
				(In Figure)	(In Words)	
	a) Single leaf shutters	Sq.M	180			
	b) Double leaf shutters	Sq.M	60			
I-06	Providing and fixing factory made pre-laminated particle board panels MDF exterior grade door from approved manufacturer including shutters including aluminium anodised tower bolt and morticed lock complete.	Sq.M	50			
I-07	Supplying and installing partition from approved manufacture at all elevations in 100 x 45 and bottom frame in 200mm x 45mm of 3mm thk. hollow anodised aluminium section of best approved quality frame work with fully glazed with 5.5mm thick float glass superior quality first grade of Modi float or equivalent approved by Engineer including frame, glazing beads, fittings and fixture, mastic caulking, putty, grouting the frame, rawl bolt, sealing after finishing etc.(glazing to be fixed to the framework with anodised aluminium channels or angles and rubber beading all round. The item rate to include for all works including fixing of partitions to floor and roof and fixing of glass etc. complete as per specifications and directions.	Sq.M	100			
I-08	Providing, erecting and fixing in position at all heights rolling shutters conforming to IS: 6248 made of 80X1.25 mm M.S.laths, interlocked together through their entire length and joined together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking, including the cost of providing and fixing necessary 27.5 cm long wire					

	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	30 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	



SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)			
				(In Figure)	(In Words)				
	springs grade No- 2, M.S., top cover 1.25 mm. thick and ball bearing, including providing and applying two coats of synthetic enamel paint of approved quality over two coats of red oxide zinc chromate primer conforming to IS: 2074 complete in all respects as per direction of Engineer-in-Charge								
	a) Rolling shutters upto 10 sq.m. in area with push and pull operation.	Sq.M	10						
	b) Rolling shutters exceeding 10 sq.m.in area with Mechanical device chain and crank operation	Sq.M	20						
J	ROOFING, FALSE CEILING, METAL DECK & METAL CLADDING								
J-01	Providing and fixing in position at all heights 6 mm thick non asbestos high impact polypropylene reinforced cement 6mm thick corrugated sheet as per IS : 1487D in roofing or wall cladding fixed with 8 mm dia. galvanised iron J or L hooks, bolts, nuts, G.I. plain and bitumen washers, complete required accessories etc. Complete (Laps in sheeting shall not be paid for separately).	Sq.M	250						
J-02	Providing and fixing in position at all heights fire-retardet translucent sheets (to match with non asbestos high impact polypropylene reinforced cement 6mm. thick corrugated sheet(as per IS :14871) roofing/ wall cladding) of approved make, made of polyster fibre glass rienforced with minimum thickness 1.2 mm to be fixed in roofing and/or wall cladding with necessary fixture such as 8 mm dia G.I. J or L	Sq.M	100						
	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	31 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)
				(In Figure)	(In Words)	
	hooks, bolts and nuts, G.I. plain and bitumen washers, etc., complete in all respects as per drawings and direction of Engineer-in-Charge (Weight of sheet shall be 6 oz. per sq.ft and laps shall not be paid for seperately).					
J-03	Providing & Fixing Aluminium false ceiling system (LUXALON) comprise of 84 mm wide 12.5 mm deep closed type plain panels of approved colour, roll formed out of 0.5 mm thick corrosion resistant aluminium alloy AA 5050 fixed on roll formed carriers. Additional hangers and height adjustment clips shall be provided for return air grills, supply air diffusers, light fixtures, AC ducts etc. including all supports and accessories according to the drawing, technical specification and direction of Engineer.	Sq.M	350			
J-04	Providing & Fixing M.S channel (minimum ISMC100) grid to be provided above false ceiling for movement of personnel to facilitate maintenance of lighting fixtures, AC ducts etc. including all supports and accessories according to the drawing, technical specification and direction of Engineer.	Sq.M	100			
J-05	Providing and laying at all heights 115 mm thick (average) brick bat (coba) water proofing treatment on roof terrace with 15 mm thick (average) cement plaster 1 : 4 (1 cement: 4 coarse sand) with an admixture of acrylic based polymer water proofing compound of approved make and manufacture laid over RCC slab after thoroughly cleaning the surface, raking and cleaning of construction joints and flooding the slab with cement slurry mixed with acrylic based polymer water proofing compound by using 2 kg. cement per sq.m. of	Sq.M	1000			



	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	32 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)
				(In Figure)	(In Words)	



	<p>area. brick bat (coba) of adequate size to get required slope for adequate drainage as desired by the Engineer-in-Charge with joints 15 to 25 mm wide, to be filled with chemical cement mortar 1:4 (1 cement: 4 coarse sand) with acrylic based polymer water proofing compound and curing for minimum 2-days. The aforesaid treatment shall continue along inner side of parapet or other adjoining walls upto the height of 30 m in the shape of round vatta (gola) to be made by embedding of the brick bats of adequate size on the junction of horizontal surface and side walls in cement mortar as above. The finished surface of water proofing treatment on the roof terrace shall not permit any leakage and/ or sweating of the ceiling or adjoining walls on account of water on the terrace and shall be sloped to provide a smooth flow of water towards the outlets. Finally the top surface shall be covered with 20 mm thick jointless cement mortar 1:4 (1 cement: 4 fine sand) mixed with acrylic based polymer water proofing compound finished smooth with trowel in cement colour marked into 30 x 30 cm false squares. The rate shall be inclusive of the cost of watering, tamping, curing and cleaning the top of all dust, loose materials, strains, etc., complete in all respects and as per direction of Engineer-in-Charge. The finished roof terrace surface shall be ponded with water for a period of two weeks to test for any leakage without any extra cost. Acrylic based polymer water proofing compound shall be mixed at the rate of 1% of weight of cement. (The work shall be executed by a reputed agency with specialisation and past experience of execution of similar water proofing treatment jobs and shall</p>					
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	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	33 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)
				(In Figure)	(In Words)	
	be approved by the Owner/ Consultant. The water proofing treatment shall be guaranteed by the Contractor for a minimum period of 10-years. The rate shall be inclusive of the cost of all the inputs as above including the cost of watering, tampering, curing and cleaning the top of all dust, lose materials, stains, etc., complete in all respects and as directed by the Engineer-in-Charge)					
K	ROADS, PAVEMENT, DRAIN AND CULVERTS					
K-01	Earth work in rough excavation, blading, spreading,shaping, trimming, compacting, drying, final rolling, and finishing the Subgrade to the required grade, cross section, and density and banking excavated earth in layers not exceeding 20 cm in depth, breaking clods, atering, rolling each layer with ½ tonne roller or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up in embankments for roads, flood banks, marginal banks and guide banks or filling up ground depressions, lead upto 50m and lift upto 1.5 m, including all labour, material, equipment, etc. all complete as per drawing, specification and direction of the Engineer.	Cu.M	6300			
K-02	Supplying, laying and rolling to correct width, depth and camber, grannular sub-base of 150 mm compacted thickness (in two layers each of 75 mm thickness compacted dry rubble stone soling with crushed rock aggregate with approved material and grading,interstices being filled in wit small pieces	Sq.M.	2500			



	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	34 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)
				(In Figure)	(In Words)	
	of stones, thoroughly rammed, consolidated and watered complete as directed and specified & rolling with 10 MT. power roller. all complete as per drawing, specification and direction of the Engineer.					
K-03	Supplying, laying and rolling to correct width, depth and camber, granular base of 150 mm compacted thickness of water bound macadam road in two layers of 75 mm compacted thickness, with specified stone aggregate, screening and binding material including screening; sorting; spreading to template , all royalties, taxes, handling, transportation to site, stacking the same by the side of the road with all leads and lifts, spreading and laying to form WBM of specified thickness to proper grade, camber and level, binding the surface with murrum, watering and consolidation with power road roller of 8 to 10 tonne capacity etc. complete. Quality and quantity of material to be used and procedure of laying shall be as per specifications and direction of site engineer. : Sub base with stone aggregate 90 mm to 45 mm including stone screening 13.2 mm size.	Cu.M.	1000			
K-04	Providing and laying bituminous tack coat by manual / mechanical sprayer including supplying all materials, preparing the existing surface, heating bitumen and applying tack coat evenly on the surface etc. Complete @ 0.5 kg /sq.m. of bitumen	Sq.M.	100			
K-05	Providing and laying hot mix hot laid bituminous macadam binder coarse of 50 mm average thickness with 3.5% bitumen of grade 60/70 or vg30 by weight of total mix including	Sq.M.	6300			



	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	35 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)			
				(In Figure)	(In Words)				
	diversion of traffic supply of all materials, heating bitumen and chips in drum mix plant, cleaning the road surface, laying bituminous macadam by paver finisher & manual laying of pot holes including compacting with static / vibratory power roller as directed by eic, transportation and cost of all materials, bitumen from refinery, etc. complete as per drawing, specification and direction of the Engineer.								
K-06	Providing and laying hot mix hot laid bituminous carpet, wearing coarse of 25 mm average thickness with 5% bitumen of grade 60/70 or vg30 by weight of total mix including supplying all materials heating bitumen and chips, mixing bitumen and chips in hot mix plant. Laying bitumen carpet with paver finisher & manual laying of pot holes including compacting with static / vibratory power roller as directed by eic, transportation and cost of all materials, bitumen from refinery, etc. complete as per drawing, specification and direction of the Engineer.	Sq.M	6300						
K-07	Supplying, laying and rolling seal coat, 6 mm thk. all complete as per drawing, specification and direction of the Engineer	Sq.M	6300						
	PAVEMENTS								
K-08	Providing and laying 100 mm thick plain cement concrete pavement with nominal mix 1: 2: 4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished smooth to the required slope including necessary earth work and disposal of surplus earth within the factory / plant battery limits over a bedding of Jhamma brick ballast 40 mm nominal	Sq.M.	800						
	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	36 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	



SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)
				(In Figure)	(In Words)	
	size including blinding materials, well consolidated to an average thickness of 75 mm complete in all respects as directed by Engineer-in-Charge.					
K-09	Providing and constructing brick-on-edge pavement for plinth protection over 100 mm thick bed of plain cement concrete 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 20 mm nominal size) to the required slope. Pavement shall consist of bricks conforming to class designation 35 (min.) of IS: 1077 or fly ash bricks as per IS: 12894 in cement mortar 1:6 (1 cement: 6 coarse sand). The top of the pavement shall be finished with flush pointing in cement mortar 1:3 (1 cement: 3 coarse sand) complete in all respects as per direction of Engineer-in-Charge.	Sq.M.	800			
K-10	Providing and laying at or near ground level factory made 450 mm long x150 mm wide x 325 mm deep pre-cast kerb stone of M-20 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	RM	1500			

	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	37 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	



SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)
				(In Figure)	(In Words)	
K-11	Suppling and laying 80 mm thk Interlocking paving tiles/ block of M35 grade of concrete for shoulders, walkway around buildings etc approved shape and colour, to correct width, depth and gradient trimming, rolling all complete including the preparation of subbase with with 20mm thk sand and filling of joints with sand as per specification and direction of Engineer	Sq.M.	1000			
K-12	Providing, supplying and laying at specified elevation and slope R.C.C. pipes of the following classes and diameter with collars conforming to IS:-458 including grouting the joints with 1:2 cement sand mortar, testing of joints, curing etc. all complete as per drawing, specification and direction of the Engineer including various types of pipe bedding as specified herein below : (Excavation, backfilling bedding if required will be paid separately as per respective item of work)					
	a) NP-2 Class					
	i) 300 mm inside diameter	RM	50			
	ii) 400 mm inside diameter	RM	10			
	iii) 450 mm inside diameter	RM	10			
	iv) 500 mm inside diameter	RM	10			
	b) NP- 3 Class					
	i) 600 mm inside diameter	RM	50			

	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	38 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	



SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)	
				(In Figure)	(In Words)		
	ii) 800 mm inside diameter	RM	10				
	iii) 1000 mm inside diameter	RM	10				
	iv) 1200 mm inside diameter	RM	10				
L	PLUMBING, SANITARY, DRAINAGE, WATER SUPPLY & BUILDING EQUIPMENTS						
L-01	Providing and fixing in position at all heights UPVC rain water pipes confirming to BIS :13592 Type A on masonry walls using wall plugs and standard holder bat clamps comprising of two semi-circular halves of flat iron and cast iron base screwed on wooden plugs or using clamps welded to structural steel members or M.S. insert plates where pipes are to be fixed on A.C. side cladding/ R.C.C. members including all necessary fittings, such as tees, shoes, off-sets, branches, swan necks, elbows, bends, heads, etc., including jointing with spun yarn soaked in bitumen and cement mortar 1:2 (1 cement: 2 coarse sand) complete. (plate inserts, if any, to be embedded in R.C.C shall be paid separately) :						
	a) 100 mm diameter pipe	RM	50				
	b) 150 mm diameter pipe	RM	300				
L-02	Providing and placing on terrace (at all floor levels) polythelene water storage tank IS : 12701 marked indicating arrangement and making necessary holes for inlet, outlet and						



	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	39 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)
				(In Figure)	(In Words)	
	overflow pipes but with fittings and the base support for tank (Sintex, Electroplast, Star Lotus or equivalent)					
	a) 1000 litres capacity	EACH	8			
L-03	Providing, supplying and fixing medium class GI water pipe conforming to IS:-1239 having embossed ISI mark with all fittings such as tees, bends, elbows, couplings, flanges, plugs, bends including testing, clamps, making threads, making chases, hole in walls, slabs etc. and making good the same to the original condition neatly where required all complete including supports, straps, all labour, material and equipment etc.					
	a) 15mm NB	RM	50			
	b) 20mm NB	RM	10			
	c) 25mm NB	RM	50			
	d) 40mm NB	RM	10			
L-04	Providing, supplying and fixing HDPE pipes conforming to IS 4986 of material grade PE 80 having pressure rating of PN6 shall be used for sanitary works above ground level including necessary fixtures and fitting such as bends, tees, single junction, double junction, slotted vent, offsets, traps, jointing supports, equipment, scaffolding, all labour, material etc. complete with lead caulked fully water tight joints as per					



	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	40 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)
				(In Figure)	(In Words)	
	Engineer's directions.					
	a) 100mm dia.	RM	100			
	b) 150mm dia.	RM	50			
L-05	Providing, supplying and fixing HDPE pipes conforming to IS 4986 of material grade PE 80 having pressure rating of PN6 for floor drains including necessary fixtures and fitting such as bends, tees, fixing clamps, junction etc. including making chases, holes etc. in walls, slabs etc. wherever required and making good the same to original condition complete with lead caulked fully water tight joints including all labour, materials etc. complete and painting with two coats of approved black bitumen paint complete as per specification and directions including equipment, scaffolding, all labour, material etc. complete.					
	a) 50mm dia.	RM	20			
	b) 100mm dia.	RM	50			
	c) 150mm dia.	RM	20			
	BUILDING EQUIPMENTS					
L-06	Providing, supplying and fixing approved superior quality squatting type (Indian type) Orissa pattern white vitreous china water closet of 580mmx440mm size conforming to IS 2556 with white vitreous china foot rests and ten (10) litres low	Each	5			



	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	41 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)			
				(In Figure)	(In Words)				
	level vitreous China low level flushing cistern with fittings of brackets, P-trap, stopcocks, 32mm dia. GI-flush pipe with fittings, 20mm dia overflow pipe with specials, coupling anti - siphonage connection PVC pipe connections with unions at both ends including painting of fittings and making chases, holes etc. and making good the same where required including materials, labour and equipment complete as per specification, drawings & directions of Engineer								
L-08	Providing, supplying and fixing approved superior quality white vitreous china European type water closet of standard size with 390mm high conforming to IS 2556white vitreous china flushing cistern of ten (10) litres capacity with CI brackets, hard rubber seat, lid with C.P. hinges and rubber buffer P-trap, stopcocks, 32mm dia. GI-flush pipe with fittings, anti- siphonage connection, PVC pipe connections with unions at both ends including painting of fittings and making chases, holes etc. and making good the same where required including materials, labour and equipment complete as per specification, drawings & directions of Engineer.	Each	20						
L-09	Providing, supplying and fixing in position at all heights white vitreous china flat back half stall Urinals conforming to IS:2556 (Part-VI/Sec.2) of size 580 x 380 x 350 mm including all standard fittings such as C.I. automatic flushing cistern with C.I. brackets and C.P. brass spreaders with unions and G.I. flush pipe of standard size and bent to required shape and G.I. clamps complete, including applying two coats of approved paint over cistern and fittings wherever required, including cutting and making good								
	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	42 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	



SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)
				(In Figure)	(In Words)	
	the walls and floors wherever required:					
	a) One urinal basin with five litres capacity C.I. automatic flushing cistern.	Each	3			
	b) Range of two(2) urinal basins connected with 10 litres capacity C.I. automatic flushing cistern.	Each	5			
	c) Range of three(3) urinal basins connected with 10 litres capacity C.I. automatic flushing cistern.	Each	5			
L-10	Providing, supplying and fixing 25mm thick partitions of approved quality and shade and of size 1200mm x 600mm for urinals including fixing it to wall etc. complete as per drawing and direction of Engineer.					
	a) Marval	Each	20			
L-11	Providing, supplying and fixing in position at all heights white vitreous china flat back wash basin conforming to IS: 2556 (Part-IV) of size 630 x 450 mm including all standard fittings such as C.I. brackets, 15 mm dia. C.P. brass pillar taps, C.P. Brass chain with rubber plug, 32 mm C.P. brass waste of standard pattern 32 mm dia. C.P. brass trap and unions, white vitreous china pedestal recessed at the back for the reception of pipes and fittings, including applying two coats of approved white paint to C.I. brackets complete, including cutting and making good the walls wherever					

	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	43 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	



SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)
				(In Figure)	(In Words)	
	required :					
	a) Wash basin with single 15 mm C.P. brass pillar taps	Each	20			
L-12	Providing and fixing in position at all heights white vitreous china laboratory sink conforming to IS:2556 (Part-V) of size 600 x 450 x 200 mm including all standard fittings such as C.I. brackets, C.P. brass chain with rubber plug, 40 mm dia. C.P. brass waste and 40 mm dia. C.P. brass trap with necessary C.P. brass unions, including applying two coats of approved paint to C.I. fittings, and cutting and making good the walls wherever required, etc., complete in all respects and as per direction of Engineer-in-Charge.	Each	2			
L-13	Providing and fixing required size and shape for stainless Steel kitchen sink , as per IS: 13982, of size 610 X 510 MM, bowl depth 200 MM in kitchen platform, vanity counters and similar location in granite stone work with drain board of at least 450 mm length with trap, hot and cold water mixer including necessary holes for pillars taps etc. along with opening of required dimensions including rubbing and polishing of cut edges etc. complete.	Each	2			
L-14	Providing, supplying and fixing 600mm x 450mm levelled edge approved quality Belgium mirror with 5.5mm thick float glass, asbestos cement sheet backing fixed to wooden cleats with C.P. brass screws etc. complete as per Engineer's directions including all labour, materials etc.	Each	20			

	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	44 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)
				(In Figure)	(In Words)	
L-15	Providing and fixing polythene (clear) liquid soap dispensers of best and approved quality with brackets screws etc. all complete as per Engineer's directions including all labour, materials etc. complete.	Each	25			
L-16	Providing and fixing 80mm CI Nahani trap conforming to IS:-5219 fixed in cement concrete including CI grating, bend and CI pipe upto the outside face of the wall including cutting holes in walls and making good the same in cement mortar 1:4 etc. complete as directed.	Each	50			
L-17	Providing, supplying and fixing CP brass stop cocks(heavy type) of approved make and design conforming to IS:781 and as per engineer 's approval					
	a) 15mm NB	Each	10			
	c) 5mm NB	Each	10			
	e) 50mm NB	Each	10			
L-18	Providing, supplying and fixing CP brass bib cocks(heavy type) of 15mm dia & of approved make and design conforming to IS:781 and as per engineer 's approval	Each	10			
L-19	Providing, supplying and fixing CI slotted vent cowls with necessary fixtures and as per direction of the Engineer					
	a) 100mm dia	Each	10			



	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	45 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)
				(In Figure)	(In Words)	
	b) 150mm dia	Each	10			
L-20	Construction of soak pit 2.50m dia. & 2.0m deep with brick masonry in cement mortar 1:6 and necessary brickbats, coarse sand filling dry honeycomb brickwork including backfilling etc. complete as per specification and drawing with all material labour and as directed by Engineer including cover slab with M-20. Earth excavation will be paid under the relevant item of work.	Each	3			
L-21	Providing and constructing 600mm x 600mm x 1000mm deep brick masonry inspection chambers in 230mm thick brick with 1:4 cement mortar having 200mm thick concrete mat in 1:4:8 with 150mm offsets beyond face of walls with 12mm thick internal plaster in 1:4 cement mortar, 100mm RCC M-25 cover slab plastered and cement rendered, channels and sloping bottom, suitable medium duty (16.6kg) 500mm internal dia. C.I. approved manhole cover with framing, MS rungs etc. complete including fixing of inlet and outlet pipes, excavation and backfilling with sand etc. all complete including all labour, materials and equipment etc.	Each	5			
M	MISCELLANEOUS					
M-01	Providing, supplying and fixing PVC pipe including necessary fixtures and fitting such as bends, tees, single junction, double junction, offsets, traps, jointing, supports, equipment, scaffolding, all labour, material etc. complete as per Engineer's directions.					

	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	46 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (IN Rs.)
				(In Figure)	(In Words)	
	a) 100mm dia.	RM	10			
	b) 150mm dia.	RM	50			
	c) 200mm dia.	RM	10			
M-01	Constructing 250mm thick brick masonry walls for septic tank and soak pit for incl. excavation; sand filling; cement concrete foundation; plastering (1:3CM) of internal walls with waterproofing compound; plastering 1:4 CM external wall; on top and sides upto230mm below finished formation ground level and also incl. CI manhole cover over septic tank; inlet/outlet chambers; 3M long 75 mm dia PVC vent pipe with PVC cover/fixed to the roof slope of the septic tank. Scaffolding, all labour, material etc. complete as per Engineer's directions. (Ref: 50 users standard Drawing enclosed for reference only)					
	a) 50 users	EACH	2			
	b) 20 users	EACH	3			
	c) 10 users	EACH	2			
TOTAL OF ANNEXURE-I.1						

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	SCHEDULE OF RATES FOR CIVIL, STRUCTURAL & OTHER ALLIED WORKS	PC107-PNCV-SR-205	1	28.05.18	GC	GC	UPT	47 OF 47	
		DOCUMENT NO	REV	REV DT	PREPD	REVWD	APPD	SHEET	