

Name of work: Balance work in Construction of RURAL SELF EMPLOYEMENT TRAINING INSTITUTE (RSETI)Building for PNB-CRDT at Kullu, Himachal Pradesh (at Risk & Cost)								
Boundary wall								
SL.NO.	Item No in DSR-14	DESCRIPTION	UNIT	As per BOQ		Qty Executed by M/s SKP Buildcon Pvt. Ltd.	Balance Qty to be Executed	Amount
				RATE	Total Qty as per BOQ (M/s SKP Buildcon Pvt. Ltd.) or Approved earlier			
1.0		SITE DEVELOPMENT AND EARTH WORK						
1.1		EARTH WORK IN EXCAVATION						
1.1.1	2.6	Earth work in excavation by mechanical means (Hydraulic excavator) /manual means over areas including disposal of excavated earth, lead upto 50m and lift upto 1.5m, surface to be levelled and neatly dressed.						
1.1.1.a	2.6.1	All kinds of soil	cum	160.27	119.00	80.00	39.00	6,250.53
							-	-
							-	-
1.2		Earth Filling						
1.2.1	2.25	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. (Net consolidated area fill volume will be computed from the initial and final levels. Volume in slopes, embankments etc. will be computed applying appropriate formula, as per CPWD specification).	cum	115.77	82.00	20.00	39.00	4,515.03
							-	-
1.2.3	NS Item	Supply selected/ approved earth brought from outside the site and filling the same in plinths, back of retaining walls, foundations and trenches and spreading in landscaping and other location as directed by the Project Manager and shall be done in layers, not exceeding 20cm in depth and consolidating each deposited layer by mechanical means, ramming and watering as per specifications including transportation, cost of soil, royalty, loading, unloading, carriage to dumping spot and all incidentals at all depths and levels, for all leads and lifts complete (Net consolidated area fill volume will be computed from the initial and final levels. Volume in slopes, embankments etc. will be computed applying appropriate formula, as per CPWD specification).	cum.	-			-	-
							-	-
							-	-
1.3		Sand Filling						
1.3.1		Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete.	cum	937.56	1.00		1.00	937.56
2.0		CONCRETE WORK (PLAIN AND RCC)						
							-	-
		(Rates for all cement concrete items plain and reinforced described below shall include work from Basement Level to top of last roof including roof of machine room, Mumty, over head water tanks and parapets above at all floors and for all heights, required hacking of the surfaces for smooth plaster. (This section covers cast in situ structural and architectural as well as precast structural and architectural concrete work).					-	-
		Plain cement concrete					-	-
2.1	4.19	Providing and laying in position ready mixed plain cement concrete, using fly ash and cement content as per approved design mix and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for plain cement concrete work, including pumping of R.M.C. from transit mixer to site of laying and curing, excluding the cost of centering, shuttering and finishing, including cost of curing, admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge.					-	-
		Note :					-	-
		(1) Excess/less cement used than specified in this item is payable/ recoverable separately.					-	-

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		(2) Fly ash conforming to grade I of IS 3812 (Part-1) only be used as part replacement of OPC as per IS : 456. Uniform blending with cement is to be ensured in accordance with clauses 5.2 and 5.2.1 of IS: 456 -2000 in the items of BMC and RMC.					-	-
2.1.1	4.19.1	All works upto plinth level :					-	-
2.1.1.a	4.19.1.1	M-15 grade plain cement concrete (cement content considered @ 240 kg/cum)	cum	6,049.10	8.00	2.00	6.00	36,294.60
							-	-
		Cast - in -situ concrete					-	-
2.2	5.40	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using fly ash and cement content as per approved design mix, and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C.from transit mixer to site of laying, excluding the cost of centering,shuttering, finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate / retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge.					-	-
		NOTE- (1) Cement content considered in this item is @ 330 kg/cum. Excess/ less cement used as per design mix is payable/ recoverable separately.					-	-
		(2) Fly ash conforming to grade I of IS 3812 (Part-1) only be used as part replacement of OPC as per IS : 456. Uniform blending with cement to be ensured in accordance with clauses 5.2 and 5.2.1 of IS:456 -2000 in the items of BMC and RMC.					-	-
2.2.1	5.40.1	All works up to Plinth level.	cum				-	-
2.2.2	5.40.2	All works above plinth & up to floor V level.	cum	7,497.99	1.00		1.00	7,497.99
		Approved Marine plywood shuttering and centering for structural concrete work in locations called for including strutting, propping, bracing, bolting, wedging, casing, striking, removal etc. complete for any size, section, thickness. Props shall consist of well designed steel pipes adequately braced (wooden ballies as props shall not be permitted). The item to include centering and shuttering at all heights and levels.					-	-
		Allow for forming grooves, drip course, chamfers, cut-outs, openings etc. where called for and for dressing with approved shuttering oil to prevent adhesion. Unexposed concrete surfaces subsequently left untreated (in the condition obtained on removal of form work) shall not constitute exposed concrete work and shall be measured under this item only. Irregular shapes with sides which may not be perpendicular to each other for shapes not conforming to rectangle or square shall not be paid separately. (quoted rate to include all staging upto any height).					-	-
		Foundation, raft slabs, raft beams, plinth beam, pedestals/ bases of columns grade slab, Retaining walls (any thickness), suspended floors, roofs, landings, balconies, stairs and landings, slabs of water tank, ramp slabs, lintels, beams, floor beams, girders, cantilever beams, deep beams, ramp beams, Columns, pillars, piers, abutments, posts and struts, off sets & projection of columns, transfer columns, lift walls, water tank walls, swimming pool wall ,ramp walls, all structural walls, Shelves in kitchen/ pantries and toilets, Parapets, Planters, vertical fins, balcony facias, projections, pergolas as per the shape and profiles indicated in the drawings, Cornices, moulding , bands , corbelling, strips, Folded plate staircase steps etc.					-	-
							-	-
2.3.1	5.9.3	Suspended floors, roofs, landings, balconies, stairs and landings, slabs of water tank, ramp slabs, lintels, beams, floor beams, girders, cantilever beams, deep beams, ramp beams etc.	sqm	413.70	14.00		14.00	5,791.80
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2.4	5.22	Reinforcement steel					-	-
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		Laying and fixing in position steel reinforcement in all reinforced concrete work, including straightening, cutting, removal of loose rust by wire brush and coating with cement slurry, bending, hoisting, laying in position to the shape and profile required at all levels and heights as per drawing and design and/ or as directed, binding with 16 gauge MS annealed steel wire etc. complete. (Quoted rate also to include providing & fixing the binding wire, cement mortar spacer blocks etc.)					-	-

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2.4.1	5.22.6	Thermo mechanically Treated Reinforcement (TMT) or High yield strength Deformed (Tor steel) bars of all size & grades. Basic Rate of Steel : Rs. 50000/Tonne					-	-
a		FE-500 Grade	MT	70,143.00	0.10		0.10	7,014.30
3.0		MASONRY WORK & STONE WORKS						
		(Quoted Rates are for all heights, all depths, all levels, including basement to roof (mumty) & all leads and lifts, including racking curved or circular masonry work, racking of brick work should be 10mm)					-	-
							-	-
3.1	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:					-	-
3.1.a	6.1.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	5,066.20	41.00	20.00	21.00	106,390.20
							-	-
3.2	6.4	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :					-	-
3.2.a	6.4.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	5,837.60	33.00		33.00	192,640.80
							-	-
3.3	11.26.1	Providing and laying 40mm thick kota stone coping over brick columns using 20mm-25mm thick Kota stone slab over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) complete as per detail & design shown in drawing.	sqm	1,175.60	11.00		11.00	12,931.60
3.4	11.41.2	Tile Flooring at Guard Room					-	-
		Providing and laying tile flooring of approved make, shade and pattern as approved by Architect laid over 20/ 12mm average thick bed of cement mortar 1:4 (1 cement : 4 coarse sand) including cutting of tiles, curing etc. complete in all respects as per pattern and as per detail complete. Tiles to follow green building norms.					-	-
3.4.a		With Vitrified tile (basic rate of @ Rs.35 / sqft)	sqm	1,448.10	5.00		5.00	7,240.50
4.0		WALL FINISHING						
		(Quoted Rate shall be for all heights, depths, levels, leads and lifts and to include providing Recron polyester fibers in cement mortar at junction RCC and brick / AAC Block walls and all chasing for electrical & plumbing conduits, pipes etc. for internal and external plaster works).					-	-
							-	-
4.1		Wall plaster					-	-
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4.1.a	13.2.2	Providing and applying 12-15mm thick plaster to masonry and RCC walls, columns etc. in cement mortar 1:6 (1 cement : 6 fine and coarse sand in equal proportion) finished smooth including scaffolding, curing, making grooves at desired location etc. complete as per drawing. To prevent surface cracks appearing between junction of columns, beams and walls 150mm wide chicken wire mesh should be fixed with U-nails 150mm c/c before plastering the junction. The plaster of walls & beams/column in one vertical plan should be carried out in one so. All U-nails should be provided without any extra payment.	sqm	177.98	630.00	50.00	580.00	103,228.40
4.2		Grooves in Plaster					-	-
4.2.a	5.30	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. Projections	metre				-	-
4.3		Weather Sheild Paint for Exterior Finish					-	-
	13.44	Finishing walls with water proofing cement paint of required shade					-	-
4.3.a	13.44.1	New work (Two or more coats applied @ 3.84 kg/10 sqm)	sqm	59.57	325.00		325.00	19,360.25
							-	-
4.4		Primar Coating					-	-
	13.85	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.					-	-
4.4.a	13.85.3	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	sqm.	36.93	325.00		325.00	12,002.25
4.5		White Washing					-	-
	13.37	White washing with lime to give an even shade :					-	-
4.5.a	13.37.1	New work (three or more coats)	sqm	16.67	23.00		23.00	383.41
5.0		DOOR WINDOW & STEEL WORKS						
		(Quoted Rates are for all heights, depths, levels, leads and lifts)					-	-
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5.1		Structural Steel for screen, Outdoor unit platform and external façade work					-	-
							-	-
		Supplying, fabricating, assembling, hoisting / erecting and fixing in position at all heights and with all leads, structural steel works of MS rolled sections (angle, channel, beams, flats, tees, insert plates, bolts etc.) all as per structural drawings and as per detailed specifications in the situations described hereinafter including:					-	-
		i) Cutting of components to required lengths/ widths and shapes/profiles, ii) Smooth grinding / machining of edges / faces / all welding joints. iii) Preparing the surface to ensure complete removal of mill scale by grit & sand blasting to achieve finish to grade SA 2.5. iv) Necessary welding (electric arc welding) for required weld lengths and sizes v) Allow for surface preparation, derusting primer coat, three or more coats of synthetic enamel paint etc. complete all as directed by the Project Manager.					-	-
		Note: The contractor shall submit fabrication drawings for work involved based on construction drawings (that may be issued during construction period) for approval by the Project Manager. The fabrication work shall start only after approval of the fabrication drawings. Any change required in the fabrication drawings shall be carried out at no extra cost. Fabrication shall be in a perfect Architectural workmanship manner and as provided in Section V & VI of IS 800 & IS 7215. Welding shall be carried out by qualified welders. Electrodes for welding, the procedure, selection, test and inspection shall confirm to provisions in IS 816, IS 818, IS 822, & IS 833. Erection/ hoisting shall commence only after passing of fabricated parts by the Project Manager.					-	-
	10.25	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.					-	-
	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works					-	-
5.1.a	10.25.2	Railing for Boundary Wall as per detail drawing.	kg	97.80	4,200.00		2,500.00	244,500.00
5.1.b	10.25.2	Main Gate as per detail drawing.	kg	97.80	255.00		255.00	24,939.00
							-	-
5.2	10.13	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.					-	-
5.2.a	10.13.2	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	kg	82.56	19.00		19.00	1,568.64
							-	-
5.3	NS Item	Providing and fixing 35mm thick flush door with commercial ply shutters of approved quality and make finished with approved enamel paint including providing and fixing 4 nos. 125mm long 64mm wide and 1.9mm thick stainless steel hinges complete as per specification.	sqm	2,684.60	2.00		2.00	5,369.20
							-	-
5.4	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :					-	-
5.4.1	21.1.1	For fixed portion					-	-
5.4.1.a	21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	kg	358.96	6.00		6.00	2,153.76

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5.4.2	21.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)					-	-
5.4.2.a	21.1.2.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	kg	418.05	4.00		4.00	1,672.20
							-	-
5.5	10.27	Providing and fixing carbon steel galvanised (minimum coating 5 micron) dash fastener of 10 mm dia double threaded 6.8 grade (yield strength 480 N/mm2), counter sunk head, comprising of 10 m dia polyamide PA 6 grade sleeve, including drilling of hole in frame , concrete/ masonry, etc. as per direction of Engineer-in-charge.					-	-
5.5.a	10.27.2	10 x 80 mm	each	72.87	8.00		8.00	582.96
							-	-
5.6	10.30	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with :					-	-
5.6.a	10.30.1	4.0 mm thick glass panes	sqm	787.35	1.00		1.00	787.35
							-	-
5.7		Hardware's					-	-
		Providing and fixing following Stainless steel (unless otherwise mention) hardware's including all necessary screws, nails, adhesive and any other fixing hardware's. Cutting in door frames, shutters, floors and providing all other fixing arrangement and fixing of all accessories as per manufacturers standard packing and instruction to be included in the quoted rates.					-	-
5.7.a		Main door set of pair handle (Basic rate of pair handle Rs. 300/- each).	each	67.57	1.00		1.00	67.57
5.7.b		Main Door Lock (Basic rate of Imported lock Rs. 550/- each).	each	813.70	1.00		1.00	813.70
5.7.c		Powder coated 200 x 10mm tower bolt (Tax paid Rate Rs. 80 /each)	each	81.63	1.00		1.00	81.63
5.7.d		Rubber door buffers (Basic Rate Rs. 40 /each)	each	319.30	1.00		1.00	319.30
5.7.e		Handle For Window (Basic rate Rs. 100/Each)	each	53.36	1.00		1.00	53.36
5.7.f		Casement Stay (Basic Rate Rs. 25 /each)	each	44.29	1.00		1.00	44.29
5.7.g		100X10mm Tower Bolt (Basic Rate Rs. 60 /each)	each	40.27	1.00		1.00	40.27
								805,472.45