

N. B. Farmers Producer Company Limited, Ramtek.

Reg. U 01100MH2020 PTC 340759 Date 18 Jun 2020

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Ref. No.....

Date. 20/07/2023

Corrigendum /Amendment No. 1

Date Extension/ Revised BOQ

Name of Project - Hon. Balasaheb Thackeray-Agri Business and Rural Transformation (Smart) Project.

Name of CBO -NB Farmer Producer Company, RAMTEK Ta. RAMTEK Dist. NAGPUR

Name Of tender -**Invitation for quotation for CONSTRUCTION OF WAREHOUSE AND PROCESSING SHED 591.90 Sq.Mt.**

RF NO. - NBFPC/15/2023 Date: 09/06/2023

Published On Date - 26/06/2023, SMART WEBSITE.

Reason for Amendment - Due to non- receipt of any bid for quotation in the prescribed period and Revised norms in BOQ. for CONSTRUCTION OF WAREHOUSE AND PROCESSING SHED 591.90 Sq.Mt.

Clause No.	Original Clause		Amendment
Tender Notice	Last Date Of Tender Submission	17/07/2023 5.00 PM	24/07/2023 up to 5.00 PM
	Tender opening Date And Time	18/07/2023 11.00 AM	25/07/2023 12.30 PM
	Bill of Quantity of Tender Document	Original BOQ Rejected	Revised BOQ attached Annexure - I



N.B. Farmer Producer Co.

Ltd. Ramtek

R.S. Salye

अध्यक्ष / सचिव

BILL OF QUANTITIES

The approximate Bill of Quantities is indicated below to give an idea of the work which should be executed in accordance with the approved drawings and specifications to enable the bidder to furnish the Item rate wise price. Bidders may, however, note that no variations in the Item rate cost are acceptable (except where extra items are ordered by the Engineer).

Sr. No	Item	Quantity	Unit	Unit Rate in Rs. inclusive of all duties, GST, other levies etc.		Total Amount in Rs.
				In figures	In words	
A	EXCAVATION					
	Local Excavation: Excavation for individual footings/trenches etc. in the following strata measured from mass excavation level up to the required depth. Rate includes pumping/dewatering /sludge removal, back filling/disposing off the surplus earth to the local dumping yard at any time as directed by the Engineer-in-charge. The rate also includes supporting under ground utilities such cables, drains, service pipes water mains, if encountered. The soil proposed to be used for backfilling the excavated site should be free from any debris, boulders, pieces of broken foundation etc., approval by EIC. The measurement for earthwork shall be for the dimension of PCC / member forming the external face of the building at the lowest level multiplied by the depth of the excavation i.e. the difference between the initial level and final level as shown in the drawing or as directed.					
A.1	UPTO 1.5 M	172.8	CUM			
A.2	1.5 M TO 3.0 M	172.8	CUM			
B	Filling in plinth, raise formation and the area wherever required all depths elevation with selected excavated earth in layers not exceeding 150 mm thickness, including mixing, spreading, leveling, watering, ramming and consolidating each layer with power / hand roller of required capacity to obtain 97% modified proctor density as per relevant specification and dressing, leveling to the required profiles, etc. all complete as directed by the Engineer but excluding excavation.					
B.1	PIT FILLING					
B.2	FOOTING PITS FILLING	131.4	CUM			

Sr. No	Item	Quantity	Unit	Unit Rate in Rs. inclusive of all duties, GST, other levies etc.		Total Amount in Rs.
				In figures	In words	
B.3	FIILING IN PLINTH	826.605	CUM			
C	Rubble Soling: Providing and laying rubble packing 230mm thick using hard stone rubble, handset one on edge, consolidating the same with power roller 8 to 10 tonnes wherever possible, or ramming with heavy wooden rammers, watering, filling, interstices with hand broken stone spalls and binding the top with stone dust at least 0.5 Cum. per 10 Sqm. preliminary rolling / ramming of sub-grade watering, rolling and ramming etc. complete as directed by EIC					
	RUBBLE SOLLING	69.12	CUM			
D	Pest Control: Unless otherwise specified, the rates quoted for Anti-Termite treatment shall include the following :Material Safety Data Sheet to be submitted and approved prior to use at site.Providing and injecting chemical emulsion of approved manufacturer for Pre-construction Anti-termite treatment and creating a chemical barrier under and all around foundation/ column pits, back fill in immediate contact with foundation, wall trenches, basement excavation, junction of wall and floor, vertical fill around reinforced concrete walls of basement/ tanks and the top surface of plinth filling, external perimeter of the building, junction of pipes and conduits, etc. by treating at the rate of 5 litres of an emulsion concentrate of one percent concentration of CHLORPYRIFOC 20% EC ISI approved conforming (IS: 8944) (i.e. by diluting 5 litres of chlorpyrifoc 20% EC, with 95 litres of water) and spraying by high volume sprayer on one square metre surface area as per IS: 6313 (Parts II and III). Contractor shall give 10 years guarantee bond on court fee stamp paper of Rs. 100/- . (Plinth area/ plan area of the building at ground floor only shall be measured for the payment under this item. Anti-termite treatment to other areas such as excavations, foundations, wall foundations, junctions, etc. shall be deemed to be included in the rate).(Plinth area/ plan area of the building at ground floor only shall be measured for the payment under this item. Anti- termite treatment to other areas such as excavations, foundations, wall foundations, junctions, etc. shall be deemed to be included in the rate).					
	PEST CONTROL	599	SQ.M			

Sr. No	Item	Quantity	Unit	Unit Rate in Rs. inclusive of all duties, GST, other levies etc.		Total Amount in Rs.
				In figures	In words	
E	FOUNDATION					
1	FOOTING					
E.1	(FOOTING P.C.C) Providing and laying in position plain cement concrete of M10 grade with 20mm downgraded coarse aggregate for leveling course/ fill under foundations, footings, basement rafts, steps, walls, platforms, ground floor, slabs on grade, sumps, manholes, and as plinth protection or as specified by Structural consultant / EIC etc., at any depth/ all levels, including centering, shuttering, scaffolding, vibrating, compacting, curing, removal of formwork, dewatering, all lead and lifts, in layers of specified thickness in alternative bays not exceeding 10 sqm etc. all complete and as directed for the following mixes. Without Vapour Barrier.	8.800	CUM			
E.2	(FOOTING CONCRETE) Providing and laying Cast in situ / Ready Mix cement concrete M-25 of trap / granite / quartzite / gneiss metal for R.C.C. work in foundations like raft , strip foundations , grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water , Steel centering , formwork , cover blocks , laying / pumping , compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel)etc.complete , with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Panmixer) etc.complete. With fine aggregate (Crushed sand VSI Grade)	51.840	CUM			
E.3	(FOOTING STEEL) Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.	7776	KG			

Sr. No	Item	Quantity	Unit	Unit Rate in Rs. inclusive of all duties, GST, other levies etc.		Total Amount in Rs.
				In figures	In words	
F.1	(COLUMNS CONCRETE) Providing and laying Cast in situ / Ready Mix cement concrete M-25 of trap / granite / quartzite / gneiss metal for R.C.C. work in foundations like raft , strip foundations , grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water , Steel centering , formwork , cover blocks , laying / pumping , compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel)etc.complete , with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Panmixer) etc.complete. With fine aggregate (Crushed sand VSI Grade)	56	CUM			
F.2	(COLUMN STEEL) Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.	8328	KG			
G.1	(PLINTH BEAMS CONCRETE) Providing and laying Cast in situ / Ready Mix cement concrete M-25of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compactionand roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand/Crush Sand)	29	CUM			
G.2	(P.C.C FOR PLINTH BEAMS) Providing and laying in position plain cement concrete of M10 grade with 20mm downgraded coarse aggregate for leveling course/ fill under foundations, footings, basement rafts, steps, walls, platforms, ground floor, slabs on grade, sumps, manholes, and as plinth protection or as specified by Structural consultant / EIC etc., at any depth/ all levels, including centering, shuttering, scaffolding, vibrating, compacting, curing, removal of formwork, dewatering, all lead and lifts, in layers of specified thickness in alternative bays not exceeding 10 sqm etc. all complete and as directed for the following mixes. Without Vapour Barrier.	9.24	CUM			

Sr. No	Item	Quantity	Unit	Unit Rate in Rs. inclusive of all duties, GST, other levies etc.		Total Amount in Rs.
				In figures	In words	
G.3	(PLINTH BEAM STEEL REINFORCEMENT) Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.	3525	KG			
H.1	(TREMIX FLOOR CONCRETE WORK) Providing and laying in situ cement concrete M20 with TREMIX TREATMENT for 100 MM thickness for flooring with groove cutting of 4mm wide and 20 mm deep with necessary refilling with bitumen etc. complete.	598.96	SQ.M			
H.2	(TREMIX FLOOR STEEL REINFORCEMENT) Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.	4500	KG			
I	(BRICK WORK) Providing fly ash lime Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete (Natural Sand/Crush Sand)	113.85	CUM			

Sr. No	Item	Quantity	Unit	Unit Rate in Rs. inclusive of all duties, GST, other levies etc.		Total Amount in Rs.
				In figures	In words	
J.1	(INTERNAL PLASTER) Providing and applying in one coat, 12mm thick Plaster on Internal surfaces of RCC/ brick/block walls in cement mortar 1:4, finished smooth with extra cement finishing, with cement not less than 2.2 kg per Sqm. Rate shall include for scaffolding. grooves, sills, pattas, curing, surface preparation before the application of plaster, providing PVC fibre mesh as mentioned in the notes above to a width of 150mm at the junctions of masonry and concrete works including tying in position by using suitable nails / clamps / screws and as directed etc. complete at all levels. The contractor shall make good the grooves, pockets etc. after the scaffolding is removed.	330	SQ. M			
J.2	(EXTERNAL PLASTER) Providing and applying 25mm thick External Sand face Plaster in two coats for external surfaces of masonry, RCC. pergola, Chajja etc. with a base coat of 15mm thick in cement mortar 1:4 with the addition of water proofing compound of approved make and 100% virgin polypropylene fibres as mentioned in the notes above and finishing or final coat of 10mm thick in cement mortar 1:5 after roughening the surface of first coat in green condition with a wire brush and clearing of loose particles. The rate to be inclusive of sponge finish by taking out grains, all complete as per specification and as directed. The rate should also be inclusive of all scaffolding for single as well as double/multiple height areas, surface preparation, curing both the coats, sills, pattas, grooves, providing PVC fibre mesh as mentioned in the notes above to a width of 150mm at the junctions of masonry and concrete works including tying in position by using suitable nails / clamps / screws and as directed etc. complete at all levels.	495	SQ. M			
K.1	(INTERNAL PAINTING WORKS) Providing and applying white-wash in two coats on old/newplaster do rmasonry surfaces and asbestos cement sheets including scaffolding and preparing the surface by brushing and brooming down etc. complete.	330	SQ. M			
K.2	(EXTERNAL PAINTING WORKS) Providing and applying white-wash in two coats on old/newplaster do rmasonry surfaces and asbestos cement sheets including scaffolding and preparing the surface by brushing and brooming down etc. complete.	495	SQ. M			

Sr. No	Item	Quantity	Unit	Unit Rate in Rs. inclusive of all duties, GST, other levies etc.		Total Amount in Rs.
				In figures	In words	
L	ROAD WORKS					
L.1	(ROAD EXCAVATION) Excavation for roadway in earth , soil of all sorts , sand, gravel or soft murum including dressing section to the required grade , camber and side slopes and conveying the excavated materials with all lifts up to a lead of 50m .and spreading for embankment or stacking as directed.	0	Cu m			
L.2	(ROAD EMBANKMENT) Providing earth work in embankment with approved materials obtained from other sources upto lead of 50m . including all lifts , laying in layers of 20cm. to 30cm .thickness breaking clods , dressing to the required lines , curves , grades & section , watering and compaction with vibratory roller with V -Satatt achment to achieve not less than 97% of standard proctor density etc. complete (Material obtained from Other sources)	0	Cu m			
L.3	(ROAD MUROOM) Supplying hard murum / kankar at the road site , including conveying and stacking complete.	0	Cu m			
L.4	(MUROOM SPREADING) Spreading hard murum/ soft murrum/ gravel or kankar for side width complete	0	Cu m			
L.5	(WATERING) Watering and compacting of embankment formed of materials obtained from the road cutting with in a lead of 50m , not less than 97% of standard Proctor density after laying them in layers of 20 cm. to 30 cm. with vibratory roller.	0	Cu m			
L.6	(ROLLER COMPACTION) Compacting the hard murum side widths including laying in layers one ach side with vibratory roller including artificial watering etc. complete	0	Sq. m'			
M	ROYALTY CHARGES					
M. 1	FOR SAND	82.06	CUM			
M. 2	FOR AGGREGATES / METAL	164.08	CUM			

Sr. No	Item	Quantity	Unit	Unit Rate in Rs. inclusive of all duties, GST, other levies etc.		Total Amount in Rs.
				In figures	In words	
M. 3	FOR MUROOM	958	CUM			
M. 4	FOR RUBBLE SOLLING	69.12	CUM			
N	LAB TESTING CHARGES					
N.1	Cement - Fineness, Standard Consistency, Setting Time (Initial & Final), Compressive strength, Soundness	1	Nos			
N.2	Concrete M-25 grade - Mix Design with all tests on basic materials	1	Nos			
N.3	Concrete M-25 grade - Concrete cube compressive strength (Set of 3 Cubes)	6	Nos			
N.4	Crushed metal - Water absorption, Specific gravity, Impact value, Crushing value	1	Nos			
N.5	Brick - Crushing value, Water absorption, & Specific Gravity	1	Nos			
N.6	Steel - Tensile strength, Yield stress, ultimate tensile stress, %elongation, weight per running meter, Bend/Rebend test. (Set of 3 Bars)	1	Nos			
N.7	Murum - Plasticity Index	1	Nos			
N.8	Murum - Field Density of compacted layer	1	Nos			
O	ELECTRICAL WORKS					
O.1	Providing and fixing lightning conductor system comprising of erecting Air - Termination consisting of tubular copper rod of 25 mm dia. 1.2 mm thick with multiple point shed 1.2mt. long (Heavy Duty) welded or clamped to G.I. pipe pole B grade 50 mm dia of required length with M.S . round base plate 25 Cm diameter 10 mm thick at bottom embedded in cement concrete 1:3:6 foundation of size 45 cm dia m x 45 cm Height and providing earthing with copper earth plate of size 60 x 60 x 0.3 cms with cadmium plate nut bolts to fix earthing strip buried in specially prepared earth pits 1.5 metre below ground level with 40 Kilogram charcoal and salt with alternate layers of charcoal and salt and G.I. pipe 40 mm dia 2 meter length buried in earthing plate remaining portion above ground level for watering and refilling complete Note-Copper strip from lightning conductor is not considered in this item.	1	Nos.			
O.2	Providing and fixing copper strip 25 mm wide and 3 mm thick for lightning conductor including fixing with screws required scaffolding etc. complete Note- Lightning conductor and earthing pits is not considered in this item	25	Nos.			

Sr. No	Item	Quantity	Unit	Unit Rate in Rs. inclusive of all duties, GST, other levies etc.		Total Amount in Rs.
				In figures	In words	
O.3	Supplying and erecting HMS PVC conduit FRLS Grade 25 mm dia. With pvc accessories on wall/ ceiling as per specification No. WG-MA/ CON	75	M			
O.4	Supplying and erecting mains with 1X1.5 sq. mm. FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Buss bars or any other places as per specification No. WG-MA/CON	250	M			
O.5	Supplying and erecting mains with 2X1.5 sq. mm. FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Buss bars or any other places as per specification No. WG-MA/CON	250	M			
O.6	Supplying and erecting mains with 2X2.5 sq. mm. FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Buss bars or any other places as per specification No. WG-MA/CON	100	M			
O.7	Supplying and erecting modular type 3pin 6/16 A multy sockets with safety shutter, duly erected on provided plate and box with wiring connections complete	25	Nos			
O.8	Supplying and erecting PVC surface modular switch box with double mounting plate for 6 module duly erected	25	Nos			
O.9	Supplying and erecting PVC surface modular switch box with double mounting plate for 12 module duly erected	25	Nos			
O.10	Supplying and erecting street light wall bracket made from 40 mm dia GI pipe 1.2 m in total length complete as per specification no FG- BKT/WB	25	Nos			
O.11	Supplying, erecting and marking SPMCB 6A to 32 A, C series with rated short - circuit braking capacity 10kA in provided distribution board as per specification no SW-SWR/MCB	25	Nos			
O.12	Providing earthing with galvanised iron earth plate size 60 X 60 C 0.6 cm complete with all materials, testing and recording the result as per specification no EA-Ep	3	Nos			
P	PEB WORK					
P.1	Structural Steel E-350 (TATA / JSW / Equivalent Make)					

Sr. No	Item	Quantity	Unit	Unit Rate in Rs. inclusive of all duties, GST, other levies etc.		Total Amount in Rs.
				In figures	In words	
	Supplying, fabricating, erecting and fixing in position of steel structures at all elevations using fusion welding quality steel E-350 (Fe490) conforming to IS:2062 - 2006. Rate shall include cost of cutting, welding, splice plates and packing plates, transporting, straightening, cleaning, fabricating and erecting in position welded/bolted Structural steelwork in columns, beams, trusses, purlins, platforms, ladders, monorails, staircases ,supports, strengthening of steel members etc. at site to line and level, supply of approved bolts/nuts/washers etc. complete as per drawings including painting as per G4/G5/G6 before erection and all materials and labour charges etc., complete and including Sand blasting & painted with 1 coats of enamel paint (Berger EPILUX SG – HHI 664002) of 35-50 micron each coat with air less spray gun over a coat of zinc chromate primer - 35-50 micron etc., complete as shown in drawings, as per specifications and as directed by the Engineer-in-Charge / Construction Manager. (The rate quoted shall include cost of bolts, nuts, washers, welding and electrodes required for the complete work).	15.00	MT			
P.2	Structural Steel - Cold Formed Light gauged (Essar / TATA / JSW OR EQUIVALENT Make)					
	Supplying, fabricating and erecting of Cold Formed Light Gauge structural steel members conforming to IS:801/ IS:811 hot-dip galvanised to IS:4759 - 96 including cutting, welding or bolting, splice plates and packing plates, transporting, straightening, cleaning, fabricating and erecting in position.	6	MT			
P.3	Sheeting					
	PPGL 0.5 mm thk					
	Supply & Fixing of PPGI sheets of 0.5 mm thick as shown in drawing or as directed by engineer incharge with all necessary accessories.(Essar) Make)	7.50	MT			
	Roof Accessories					
	Supply & Fixing of 0.5 mm thk PPGL roof accessories as per drawing or as directed by engineer incharge-					
P.4	CORNER FLASHING	70	RMT			
P.5	Center Ridge	35	RMT			
P.6	Gable flashing	70	RMT			
P.7	Roof Gutter					
	Roof Gutter (Assumed Girth- 600 mm) PPGI 0.5 mm Thk.					

Sr. No	Item	Quantity	Unit	Unit Rate in Rs. inclusive of all duties, GST, other levies etc.		Total Amount in Rs.
				In figures	In words	
	Supplying, fabricating and erecting in position PPGI Eaves Gutter of required size with stop ends, all fixing accessories, drop ends, etc., at all elevations levels & heights including aligning, leveling, providing and fixing bolts, nuts, washers etc., conforming to latest specification including straightening, cutting, welding, bending to shape, bolting etc., complete and as directed as per engineer incharge	70	RMT			
P.8	Downtake Pipe					
	Providing and fixing of the rain water down take pipes of PPGI, the sectional area of rain water down take pipes provided shall be generally at the rate of 1 square cm per 70 to 80 square decimetre of roof area drained. No spout shall be less than 80 mm in diameter. The spacing of spouts shall be arranged to suit the position of openings in the wall including necessary accessories for fixing the pipe and including all materials and labour charges etc., complete as shown in drawings, as per specifications and as directed by the Engineer-in-Charge /	130	RMT			
P.9	Polycarbonate Sheet					
	Supply & Fixing of 2mm thk polycarbonate sheets as per drawing & as directed by engineer in-charge.	34	SQ.M			
P.10	Turbo Ventilator					
	Supply & Fixing of turbo ventilator with 610 mm throat, having base ring & top plate in stainless steel of 0.8 mm thick, rotated using twin bearings of SKF - 600122 & 600322 permanently lubricated & sealed. Fixed in FRP base plate of 2mm thk clear 1.020 mtr wide & 1.7 mtr long.	0	N0.s			
	Providing and managing 20 Trees in the same premises, under Management Strategies And Implementation Plan (MSIP) to Manage Environmental , Social , Health And Safety.	30	Lums um			
R.1	Providing and fixing mild steel grill gate as per the detailed drawing including hinges, locking arrangements and painting in three coats of oil paint of approved colour and shade etc. complete. (weight 18 Kilogram. to 20 Kilogram. Per Sq.m.) Spec. One Number: As directed by Engineer-in-charge.	12	SQ.M			

Sr. No	Item	Quantity	Unit	Unit Rate in Rs. inclusive of all duties, GST, other levies etc.		Total Amount in Rs.
				In figures	In words	
R .2	Housing box to rolling shutter	18	SQ.M			
Total Amount inclusive of all in Rs.						

Note: The total amount mentioned in the form-8 should be same as mentioned in the BOQ.

We agree to execute the works in accordance with the terms and conditions mentioned in the invitation for quotation document , approved drawings and technical specifications at a total fixed contract price of Rs...../- (amount in figures) (Rs.only amount in words).

Signature

Name of Authorized Signatory.....

Bidder's Office Seal