

DIRECTORATE OF FARMS
CH. CHARAN SINGH HARYANA AGRICULTURAL UNIVERSITY, HISAR
(ESTABLISHED BY PARLIAMENT ACT NO. 16 OF 1970)

E-TENDER NOTICE

The E-tenders are invited from the eligible bidders through online bids in the website: <http://etender.hry.nic.in> for field operations/work (For Farm Area, Research Area & Palledari work) in the University through e-tendering at Central Level for empanelment of contractors for the period from 01.04.2024 to 31.05.2025. Details of field operations/works to be got done through e-tendering have been furnished in the proforma placed below:

(A) Detail of field operations/work for farm area: -

Sr. No.	Nature of Job	Accounting Unit	Total Unit	Approx Expenditure	Tender Value	EMD
1	Field preparation, sowing, thinning and Planking operations for Farm Area					
i	Harrowing	Acre	11655	5011650	13665770	250000
ii	Ploughing/weeding by cultivator	Acre	2163	540750		
iii	Ploughing by Rotavator	Acre	716	716000		
iv	Planking	Acre	1436	244120		
v	Sowing of crops with seed drill including lifting of seed from store	Acre	2623	918050		
vi	Sowing by hand plough including lifting of seed from store	Acre	386	1737000		
vii	Thinning in Rabi, Kharif & Summer seasons crops	Acre	1974	2368800		
viii	Leveling of field by laser leveler	Hour	1416	1274400		
ix	Hiring of JCB machine for uprooting of wild plants, cleaning etc.	Hour	950	855000		
2	Hoeing, Roughing and fertilizer broadcasting operations for Farm Area					
i	Broadcasting of fertilizer/zypsum in crops of Rabi, Kharif & Summer seasons including loading from store and unloading in field.	Quintal	4192	838400	14046160	250000
ii	Manual hoeing by kasola in crops of Rabi, Kharif & Summer seasons.	Acre	5233	10466000		
iii	Hoeing by khurpa in crops of Rabi, Kharif & Summer seasons.	Acre	244	1122400		
iv	Hoeing with kasola after tractor hoeing in crops of Rabi, Kharif & Summer seasons.	Acre	345	621000		
v	Rouging in crops of Rabi, Kharif & Summer seasons.	Acre	4538	998360		
3	Harvesting and Threshing operations for Farm Area					
i	(a) Manual harvesting to bagging of Rabi, Kharif & Summer seasons crops except Wheat, Barley & oat, all operations i.e. manual harvesting, bundle making, collecting in khalian, threshing with their own thresher, cleaning, weighing, bagging, Sewing and stacking in store. Bhusa of Gram, Moong, Guar, Barseem, urd, Febabean, cowpea, Karbi of Bajra, Jwar, Maize, Stick of Dhaincha, Arher, Mustard/Raya, til sunflower, Soyabean crops will be	Acre	1500	6750000	16270300	250000

	of contractor. Tirpal, jeli, tangli etc. will be provided by the contractor. Transportation from field to stores will be provided by the university.					
ii	(b) Manual harvesting to bagging of Wheat, Barely & oat crops, all operations i.e. manual harvesting, bundle making, collecting in khalian, threshing with their own thresher, cleaning, weighing, bagging, Sewing and stacking in store. Bhusa of Wheat, Barely & oat will be of the Contractor. Tirpal, jeli, tangli etc. will be provided by the contractor. Transportation from field to stores will be provided by the university.	Acre	1051	2627500		
iii	Harvesting and threshing by combine of Rabi, Kharif & Summer seasons crops including cleaning, weighing, bagging, Sewing and stacking in store. Mopping up with combine harvester. Contractor will have to do manual harvest also of the crop plots along with the bunds/channels and thresh. Transportation from field to stores will be provided by the university.	Acre	3338	4506300		
iv	Threshing by thresher. Transportation from field to stores will be provided by the university	Acre	555	2386500		
4	Irrigation, Canal maintenance, Path cleaning and Spraying operations for Farm Area					
i	Cleaning of katcha/Pacca irrigation channel	Meter	767480	2455936	9713799	250000
ii	Path cleaning/ maintenance of path	Meter	500547	1101203		
iii	Irrigation by Burma/Canal	Acre	14441	4332300		
iv	Irrigation by tubewell	Acre	2043	653760		
v	Spraying by tractor mounted sprayer pump	Acre	5746	861900		
vi	Manual Spraying	Acre	686	308700		
5	Cotton Picking					
i	General Cotton Picking	Quintal	1134	2608200	3388500	169425
ii	Experimental Cotton picking	Quintal	289	780300		

(B) Detail of field operations/work for research farm area: -

S No	Nature of Job	Accounting Unit	Total Unit	Aprrox Expenditure	Tender Value	EMD
1	Field Preparation and Sowing Operations					
i	All Field operations with university tractor (sowing, ploughing, hoeing, channel making, bund making etc.)	Hour	6110	611000	6846850	250000
ii	Manual layout and sowing work (digging and leveling of corners, making of bunds, ridges, rake work, channel making, keeping and lifting of seed packets, application of agrochemical /fertilizer/cultures, FYM. sowing etc.) for field crops.	Acre	369	2767500		
iii	Manual layout and sowing work (digging and leveling of corners, making of bunds, ridges, rake work, channel making, keeping and lifting of seed packets, application of agrochemical/fertilizer/cultures, FYM ,sowing etc.) for Wheat/barley/ sorghum/oats/berseem/MAP crops.	Acre	111	999000		

iv	Manual layout and sowing/transplanting work: (digging and leveling of corner, rake work, making and dressing of beds/ridges, marking, seed treatment, application of fertilizer/agrochemicals/ FYM, channel making, seed preparation for sowing/planting, keeping and lifting of seed packet/bulb/tuber/seedling, sowing /transplanting/planting etc.) for seed spices and vegetable crops except onion, garlic and potato	Acre	69	1242000		
v	Manual layout and sowing/transplanting work: (digging and leveling of corner, rake work, making and dressing of beds/ridges, marking, sorting of seed/tubers, seed treatment, application of fertilizer/agrochemicals/ FYM, channel making, seed preparation for sowing/planting, keeping and lifting of seed packet/bulb/tuber/seedling, sowing /transplanting/planting etc.) for onion, garlic and potato	Acre	15.9	381600		
vi	Manual layout and sowing/transplanting work: (digging and leveling of corner, dressing of beds/ridges, seed treatment, application of fertilizer/agrochemicals/ FYM, marking, channel making, seed preparation for sowing/planting, sorting of seed/tubers, keeping and lifting of seed bag/bulb/tuber/seedling, sowing /transplanting/planting with university tractor etc.) for seed spices and vegetable crops except onion, garlic, Mulethi, Sataver, alovera	Acre	12	144000		
vii	Seed preparation/arrangements for different experiments, germplasm, breeding material etc. upto 1 KG	Sample / Entry	49250	246250		
viii	Weighing and application of manures/fertilizers/weighing of seeds/agrochemicals/soil/plant sampling for different experiments	Sample / Entry	14400	72000		
ix	Activity of gap filling and crust breaking for bajra and cotton crops	Acre	42.5	212500		
x	Activity of gap filling and crust breaking for other crops	Acre	57	171000		
2	Labeling/Bamboo Fixing/Selfing Cage/Cloth Bags					
i	Cutting and fixing of wooden label sticks	Stick	28500	85500		
ii	Preparation of luggage labels, pegging and tagging in different experimental plots, breeding material, germplasm etc.	Label	81500	163000		
iii	Bamboo fixing, tying/untying of cloth bags/pheromone trap installation	Bamboo	920	18400	315700	15785
iv	Fixing and removal of selfing cages with iron pipes/bamboo and picking of old flowers	Cage	120	12000		
v	Digging of hole fixation of bamboo and stacking with sutli, trailing of vine on bamboo structure, maintaining of vine	Acre	2.3	36800		
3	Experimental plot irrigation, micro/drip irrigation and dewatering					
i	Experimental plot manual irrigation including cleaning of channels etc.	Acre	1183.5	1183500	1578500	78925
ii	Need based dewatering operations in the field manually/with pump.	Acre	127.5	127500		

iii	Lining, delining, periodical shifting, cleaning and lifting of drip system including irrigation/fertigation in horticultural/vegetable/field crops per season	Acre	42.5	127500		
iv	Lining, delining, periodical shifting, cleaning and lifting of sprinkler system including irrigation/fertigation in horticultural/vegetable/field crops per season	Acre	70	140000		
4	Manual work of selfing, crossing and maintenance of male sterile lines					
i)	Selfing in Rapeseed/mustard/ vegetable/ MAP crops	Plant	9300	139500	1899500	94975
ii)	Selfing in Bajra/Sunflower/til/ sorghum	Flower / Earhead	113000	339000		
iii)	Selfing in Cotton (For 60 days)	Kanal	4	200000		
iv)	Emasculation & pollination in rapeseed/ mustard/ sorghum/cotton/ guar	Plant	9600	480000		
v)	Emasculation & pollination in wheat/ barley/oats	Earhead	2150	43000		
vi)	Emasculation & pollination in pulses/ vegetable/MAP crops/bajra/ fababen/sun flower/til	Flower / Earhead	28800	288000		
vii)	Maintenance of GMS line for 60 days	Kanal	4	240000		
viii)	Maintenance of A, B and R Lines in rapeseed and mustard	Plant	3000	120000		
ix)	Maintenance of A, B and R Lines in sorghum	Plant	5000	50000		
5	Harvesting and Threshing Work					
i)	Research plots and border row (separate) harvesting manually including collection and bundle making for oats/wheat/barley/ rapeseed/ mustard/bajra/pulses/maize/guar/ sunflower /til/sorghum/MAP crops	Acre	263	1578000	5971260	250000
ii)	Research plots and border row (separate) threshing manually for oats/rapeseed/mustard /bajra/pulses/maize/sunflower/til/sorghum/MAP crops	Acre	194	2328000		
iii)	Research plots threshing with plot thresher and arrangement of bundles for wheat/ barley/oats/bajra/MAP crops	Acre	70	420000		
iv)	Manual collection, loading, unloading of harvested produce from different locations in the field	Acre	272	326400		
v)	Manual harvesting, threshing, cleaning, bundle making, bagging and shifting of single/double rows produce to store.	Meter	10300	257500		
vi)	Weighing of trials after threshing and bagging of research material/seed/produce, stocking/arranging in store	Sample	44000	132000		
vii)	Harvesting of cross/self material in rapeseed/mustard/vegetable crops	Sample	9030	54180		
viii)	Harvesting of cross/self material in pulses/til/MAP crops	Sample	20500	41000		
ix)	Harvesting of cross/self material in bajra/sorghum/wheat/barley/sunflower/guar	Sample	101350	101350		
x)	Threshing, cleaning, drying, packing and keeping in store of cross/self material in rapeseed/mustard/ vegetable crops	Sample	9000	63000		
xi)	Threshing, cleaning, drying, packing and keeping in store of cross/self material in wheat/ barley/ oats/ guar/ til/pulses/MAP crops	Sample	29650	88950		

xii)	Threshing, cleaning, drying, packing and keeping in store of cross/self material in bajra/sorghum/sunflower	Sample	43000	258000		
xiii)	Harvesting of green fodder including weighing, loading and unloading	Acre	25.4	182880		
xiv)	Picking of cross bolls / Single plant in cotton crops	Plant	20000	140000		
6	Ginning, cleaning, delinting of cotton					
i)	Ginning of samples upto 100 gram	Sample	12000	288000	463500	23175
ii)	Ginning of samples upto 1 kg	Sample	300	33000		
iii)	Bulk ginning on rollergin and cleaning	KG	600	66000		
iv)	Acid delinting of small and large samples (upto 5 kg sample)	Sample	150	16500		
v)	Maintenance of ginning machines per season	Season	1	60000		
7	Collection and Preparation of samples for analysis					
i)	Sample collection of soil/plant/fruit/shoot/root/seed/flower/leaf/water etc.	Sample	26010	130050	449550	22478
ii)	Sample collection of soil/root sample (upto 1 meter depth)	Sample	1800	27000		
iii)	Sample collection of soil/root sample (upto 1-2 meter depth)	Sample	550	11000		
iv)	Collection of wheat grain samples from different grain market of Haryana and assessment of karnal bunt and black point disease in the samples.	Sample	900	13500		
v)	Sample preparation, grinding, weighing, drying, washing estimation etc. of all crops	Sample	6450	258000		
vi)	Sample preparation, cleaning and weighing for fiber quality analysis	Sample	1000	10000		
8	Help in data recording (Plant wise / Kanal wise)					
i	Rapeseed/mustard/cotton/vegetable crops (Plant wise)	Plant	11080	443200	2942000	147100
ii	Bajra/sorghum/sunflower/til/guar/MAP/horticulture/fo rage/pulses crops (Plant wise)	Plant	45940	459400		
iii	Forestry/fruit trees/wheat/barley (Plant wise)	Plant	200	600		
iv	Cotton (Kanal wise)	Kanal	411	1849500		
v	Rapeseed/mustard/wheat/barley/bajra/ (Kanal wise)	Kanal	186	102300		
vi	Vegetable Crops (Kanal wise)	Kanal	145	87000		
9	Separation of rows in germplasm/breeding material/ experimental					
i	Field crops	Acre	54	97200	115200	5760
ii	Vegetable/seed spices crops	Acre	1.5	18000		
10	Maintaining of genetic purity in breeding trials and seed plots					
i)	For all crops (Except Wheat/Barley/ vegetable crops)	Acre	116	139200	289200	14460
ii)	For Wheat/Barley/vegetable crops	Acre	50	150000		
11	Help in selection, harvesting, cleaning, threshing, packing, drying of single plant/ear/breeding material/germplasm etc.					
i)	Wheat/barley/oats/berseem	Plant	30000	120000	305000	15250
ii)	Rapeseed/mustard/bajra/sorghum/til/sunflower/vegetable/horticulture/ pulses / guar/MAP crops	Plant	18500	185000		
12	Manual seed counting and weighing					
i)	100 seeds	Sample	18050	54150	96275	4814
ii)	1000 seeds	Sample	8425	42125		

13	Manual work of binding and removal of crop stover after harvesting					
i)	All crops except cotton	Acre	120	360000	768000	38400
ii)	Cutting and removal of cotton	Acre	68	408000		
14	Experimental seed cleaning of research material.					
i	Small seeded crops	KG	380	57000	69000	3450
ii	Large seeded crops wheat, barley, gram, etc.	KG	1200	12000		
15	Manual work at integrated faming system unit					
i	Cutting of dry and green fodder, lifting from field, chaffing of fodder, making of concentrate, feeding of stover/straw/concentrate, cleaning of animals and shed, watering, milking and supply to department of LPT, LUVAS per month	Animal	72	612000	783500	39175
ii	Vermicompost and biogas preparation : Lifting waste material, watering, mixing, sieving, application and separation of earth warms, cleaning, packing and supply to market.	Qtl	42	42000		
iii	Mushroom cultivation : Composting, spawning, casing, temperature maintenance, harvesting, packing and selling.	Qtl	11.5	57500		
iv	Drought plot of size 6x1x3 experiments (cleaning and plot preparation manually, mixing of fertilizers, sowing of crops, irrigation, gap-filling and thinning, root washing, data recording at different stages and re-filling with sand)	Plot	36	72000		
16	Manual work of pruning and training					
i	Pruning/training of horticultural crops including collection of pruned material (Guava, Mango, citrus, sapota)	tree	4850	242500	547000	27350
ii	Pruning/training of horticultural crops including collection of pruned material (Peach, pear, plum, apple, grapes, Pomegranates)	tree	1000	100000		
iii	Pruning/training of horticultural crops including collection of pruned material (Ber and others)	tree	1040	156000		
iv	Periodical removal of sucker, earthing up, stacking and mattocking in Banana	Plant	1200	12000		
v	Preparation of various bio formulation of natural farming including collection of raw material (cow dung, urine, neem leaves and other biomaterial etc.) Liquid formulation	Liter	5100	25500		
vi	Preparation of various bio formulation of natural farming including collection of raw material (cow dung, urine, neem leaves and other biomaterial etc.) Solid formulation	Kg	1100	11000		
17	Manual work of Fish pond operation					
i)	Cleaning of fish pond (in & out side)	Acre	2.5	125000	227500	11375
ii)	Desilting of perennial ponds	Acre	1	50000		
iii)	Fishnetting operations/harvesting of fishes including loading and unloading with vehicle	Day	7	52500		
18	Manual digging, selection, cutting, cleaning and drying of roots.					
i)	Mulethi	Acre	1	48000	54000	2700
ii)	Satvari, Ashawgandha, vetivar etc.	Acre	0.5	6000		
19	Loading/Unloading/Spreading of FYM/Organic Manures/sand /fertilizer along with tractors and					

	trolley					
i	Loading/Unloading of FYM/Organic Manures/sand/fertilizer along with tractors and trolley of size 12x6x4 (upto 15 Km preferably from animal science)	Trolley	403	322400	680000	34000
ii	Loading/Unloading including spreading of FYM/Organic Manures/sand/fertilizer along with tractors and trolley of size 12x6x4 (upto 15 Km preferably from animal science)	Trolley	298	357600		
20	Manual hoeing and earthing work					
i)	Manual hoeing with wheel hoe in experimental plots	Acre	198	356400	561000	28050
ii)	Earthing up and hoeing in vegetable crops / field crops	Acre	16.8	201600		
iii)	Earthing up and hoeing in medicinal plants	Acre	0.5	3000		
21	Help in Fatty acids/Biochemical/Molecular/Physiological/ Residue work					
i)	Wheat/Barley/Bajra/Pulses/Forage/ MAP/vegetable Crops and agro chemical residue	Sample	6500	650000	825000	41250
ii)	Cotton/Oilseed Crops	Sample	700	175000		
22	Help in lab. work and data recording					
i	Washing of glassware, culturing and media preparation, help in autoclaving of culture media, standard solution preparation, Sub culturing and other lab works etc. for each lab	Month	134	1608000	2592000	129600
ii	Manual work of seed testing for help in sample preparation, data recording of seed germination, vigor, moisture, pathological work and physiological work, seed counting, seedling emergence, speed of germination at regular intervals etc. for each lab	Month	60	720000		
iii	Maintenance of Agromet Observatory, Grass cutting , instrument cleaning etc.	Month	12	24000		
iv	Manual work of honey bees maintenance, colonies including their daily examination, migration, extraction of honey & other hive products for one year	Beehive	60	240000		
23	Manual Uprooting/digging of roots, layout and planting work:					
i)	Digging/uprooting of roots, Sorting, help in selection, cutting of roots for steckling, loading and unloading, shifting to field/store	Acre	1.5	24000	84000	4200
ii)	Manual layout of field, digging and leveling of corner, rake work, making and dressing of beds, application of fertilizer/agrochemicals/ FYM, channel making, keeping and lifting of steckling and planting followed by irrigation and weedicide application etc.) for root crops.	Acre	6	60000		
24	Manual weeding/hoeing work in vegetable crops					
i)	With Khurpa in onion, garlic and seed spices crops.	Acre	10	200000	962650	48133
ii)	Manual weeding/hoeing with Kasola in all vegetable crops.	Acre	70.9	602650		
iii)	Thinning in carrot, radish, seed spices and other vegetable crops manually	Acre	10	160000		
25	Manual harvesting/picking of vegetables (mature/ immature stage) in different stage					
i)	Harvesting/picking, bunching/ bagging, weighing, counting and shifting to store. (Leafy vegetables, beans, cucurbit and cole crops)	picking/k anal	39	23400	91650	4583

ii)	Harvesting/picking, bunching/ bagging, weighing, counting and shifting to store. (Tomato,brinjal, pea)	picking/k anal	32.5	29250		
iii)	Harvesting/picking, bunching/ bagging , weighing, counting and shifting to store . (Okra, chilli crops)	picking/k anal	32.5	39000		
26	Manual harvesting and threshing of vegetable crops					
i)	Harvesting, bundle making, collection in field, threshing, winnowing, cleaning, drying, bagging, keeping in seed store (seed spices, root crops, palak, okra, bottle gourd,ridgegourd, pea and beans etc.)	Acre	27	540000		
ii)	Harvesting, bundle making, collection in field, threshing, winnowing, cleaning, drying, bagging, keeping in seed store for Vegetable seed spices research crops	Acre	3	75000		
iii)	Harvesting, collection in field, chopping/crushing of fruits, adding water, stirring, covering, cleaning, washing, drying, cleaning, winnowing, bagging and keeping in store (Tomato, brinjal cucumber, bittergourd, melon group,	Acre	6	168000	1225800	61290
iv)	Haulm/leaf cutting, digging, bunching, bagging, loading and unloading, sorting, grading, weighing and keeping in storage) of potato, onion and garlic crops	Acre	12.4	334800		
v)	Haulm/leafcutting, digging with tractor, bunching, bagging, loading and unloading, sorting, grading, weighing and keeping in storage) of potato	Acre	6	108000		
27	Vegetable seed store management:					
i)	Vegetable seed store and machinery cleaning/care, help in sampling of seed for germination test, seed handling in storage, further cleaning, fumigation of seed, grading, drying of seed in store and other day to day work in store	Month	12	288000	513000	25650
ii)	Preparation of Kitchen garden packets (5-7 small pkts. of seasonal vegetable packed in one pkt)	Kit	15000	225000		
28	Field Preparation and planting works of forestry					
i	Manual field preparation, layout, digging of pits (depth - 3 feet, width- 3 feet diameter), putting of FYM/compost, fertilizer, sand in pits, transplantation of plant, shifting of plants to field/nursery, irrigation, weeding (15 days interval), replanting of dead plant if any	Acre	1	20000		
ii	Irrigation by water tanker in transplanated plants/trees	per plant	21000	115500		
iii	Pruning/training of trees, collection, loading and unloading (upto 1 km distance)	per plant	1600	16800		
iv	Pruning/training of ornamental plants, collection, loading and unloading (upto 1 km), renovation of pits	per plant	1100	24200	336000	16800
v	Cleaning the area around the tree base (radius - 4 feet)	per tree	20000	100000		
vi	Data recording of trees/plants	per plant	4000	10000		
vii	Whitewash and terracotta on trees upto 1.5 meter height	per plant	4050	40500		
viii	Digging of pits, installation of cemented poles, fitting of barbed wire on and between cemented poles (four layer of barbed wire)	per pole	300	9000		
29	Work in Modern Indigenous Seed Bank					

i	Seed cleaning, seed preparation and packing manually for germplasm lines of different crops, moisture content and germination testing of germplasm, monitoring the temperature and functioning of seed bank round the clock (24 hrs), cleaning in and out side premises of Modern Indigenous Seed Bank round the clock .	Month	12	432000	432000	21600
30	Tissue culture plant production					
i	Collection of explants from field, washing of glasswares and plasticwares helps in media preparation, sterilization, loading unloading and storage of media, sub-culturing of tissue culture plants on laminar air flow. Shifting of cultured bottles to growth room or to culture room, cleaning of laboratory etc. for each lab	Month	60	720000		
ii	Preparation of potting mixtures/media, filling of pro trays/polybags of different sizes, Transplanting of plantlets (tissue culture raised)/seedlings in pro trays. Shifting to green house/nethouse and maintenance. Packing and delivery of plants from green house/net house, Cleaning of area in and around green house/net house. Spray of pesticides/Irrigation/ fertigation in green house/net house/germplasm block for each house	Month	36	432000	1296000	64800
iii	Transplanting of plants, weeding, Training/pruning of trees/herbs in germplasm block/field area.	Month	12	144000		
31	Pot Experiments in screenhouse / green house/Net house/Cactus House					
i)	Sand sieving, pot washing, pot filling, seed sowing, irrigation, help in data/observation recording, thinning, application of agrochemicals, weeding, harvesting, loading of sand from field and unloading in screen house/polyhouse and cleaning - Size upto 250 sq. feet	Month	112	1344000	1349000	67450
ii)	Raising of seedling in pots, daily watering, labeling, data recording, harvesting, threshing, packing, washing of soil sample and isolation.	Pot / Sample	200	5000		
32	Nursery raising work manually					
i)	Nursery raising (3x1 meter) manual preparation of nursery bed, mixing of FYM, sowing of seed, irrigation with rose cane, weeding, application of FYM and agro-chemical upto 45 days	Bed	159	63600	65600	3280
ii)	Protray Nursery raising: (Preparation of media, filling of protrays, seed sowing, irrigation, fertigation in protrays and after care up to 45 days)	Protray	20	2000		
33	Forestry Nursery raising work manually					
i)	Raising nursery of different tree species through seed/cutting, Irrigation, weeding, application of fertilizer, uprooting, loading	per acre	0.25	8750		
ii)	Preparation of mixture (sand+FYM/compost/Fertilizer), filling of polybags/trays, preparation of cutting, planting of cutting/seed , irrigation, weeding, shifting of bags, loading/unloading etc.	per poly bag/tray	20500	102500	399250	19963

iii)	Manual watering with pipe in plants, pruning /hedge/cutting of grass/ plants/trees/pot plants/ornamental plants in the complete area of Forestry Nursery (About 10 Acre) , cleaning of Net/green house and nursery beds, litter collection in whole nursery and lifting and shifting (upto 1 km) of pruning material. Cleaning of renovation of pit of plants/trees/ornamental plants in forestry nursery	Month	12	288000		
34	Manual work at botanical garden/Herbal garden					
i	Watering of plants and hedges with pipe, cutting/pruning/training, cleaning of garden, weeding, application of FYM / compost / agro-chemicals, litter collection, keeping and lifting of flower / plant pot, path cleaning etc. in the complete area of Botanical garden per month.	Acre	126	567000		
ii	To prepare the soil/soilless mixture for filling up of pro trays/polybags/pots, growing of plants through cutting/seeds in treys, pots and polybags for plant production. Weeding in pots/field and shifting of pots in garden as per requirement per month.	Acre	120	720000	1647000	82350
iii	Manual work at Herbal Garden : Hoeing, weeding, irrigation, digging of planting material, path cleaning, pruning of trees, training, trailing etc.	Month	12	360000		
35	Greenhouse/ Walking tunnels/ Vertical farming- open field/Precision farming operations					
i	High tech Nursery raising-Preparation of media, filling of protrays, seed sowing, irrigation, fertigation in protrays Shifting of protrays and Grafting of seedlings and after care with climate control management in different structures & data recording.	Protray	50	10000		
ii	Vertical Farming /Grafting -Polyhouse soil Preparation by mini tractor/rotavator, Manual Levelling of soil, Bed layout, Dressing of beds/ridges, manual installation of new and drip lines and mulch, hole making, vermicompost mixing in pits on bed, Transplanting of seedlings	Sq meter	5000	200000		
iii	Precision farming operations at regular intervals (Fertigation, weighing and application of agrochemicals, irrigation,harvesting and help in data recording, removal of offshoot in grafted plants, trellising of crops under greenhouses, training & pruning of grafted/ non grafted plants, weeding, cleaning of beds and side paths inside greenhouse and climate control management under protected structures) for short stature crops- leafy vegetables/ Strawberry/flowers/capsicum/chilly	Sq meter	63000	189000	859800	42990
iv	Precision farming operations at regular intervals (Fertigation, weighing and application of agrochemicals, irrigation,harvesting and help in data recording, removal of offshoot in grafted plants, trellising of crops under greenhouses, training & pruning of grafted/ non grafted plants, weeding, cleaning of beds and side paths inside greenhouse and climate control management under protected structures)for long stature vining crops with continuous bearing- Blue berry, tomato, cherry tomato, cucurbits	Sq meter	63000	252000		

v	Formation of walking tunnels/ Bamboo staked Vertical plots-Digging of hole, lifting of bamboos, fixation of bamboo/PVC pipes for low tunnels, roping, netting and staking of plants on bamboo sticks/pipes etc., stitching and fixing of cladding material in walking tunnels, Mounting of vine on crop net /UV stabilised white sutli, removal of trellising wires/bamboo/PVC pipes and removal of dried crop vines/residues.	Sq meter	500	27000		
vi	Filter / flush valves cleaning, flushing job in filtration unit , delining of drip lines, removal of mulch , PVC pipes, bamboo etc,Stiching/repair work in structures and Soil Solarisation /washing & cleaning of Green house roofs	Sq meter	4200	16800		
vii	Specific Operations for Precision Technology Assessment & Refinement on mounted structure (Hydroponic /aeroponic/vertical farming structure and their maintenance under protected conditions, Preparation of soilless media and its different compositions, Planting/transplanting of strawberry, lettuce, bak choy, gladiolus, chrysanthemum, capsicum & tomato in grow bags, fertigation, help in data/observation recording, thinning, application of agrochemicals, weeding, harvesting)	Sq meter	300	150000		
viii	Screening of root stocks for nematodes, salinity, bacterial wilt etc. for 30 days - inoculation and data recording	Pot	300	15000		
36	Manual works at CQPM unit					
i	Fruit plant propagation and multilplication work at CQPM including raising of seedling and rootstocks in polybags/ soil beds , budding / grafting/ layeing along with irrigation / plant protection / weed control . Care and maintenance of fruit mother block. Digging/ packing of fruit plant / vegetable / flower seedling for sale.	Month	12	360000		
ii	Cultural practices and care and maintenance of protected structures of CQPM including handling and operation of climate control system, roll up curtain , Handling and care of hydroponics /aeroponics / soilless cultivation / auqaponics . Operation of microirrigation system of complete CQPM etc	Month	12	360000	1080000	54000
iii	Landscaping and floriculture work at CQPM including regular maintenance and care of lawns , hedges , topiary , shrubs , creepers, ornamental Vertical gardens, container gardens , potted floriculture and exotic plants, demonstrations plots , biowall , wall mounts plants ,Staking , pinching , pruning , removal of dried flower in flower crops in pots /beds . need cleaning irrigation water tank etc	Month	12	360000		
37	Misc works for research area					
i	Manual planting of roots/stackling in mulethi	Acre	0.3	3600		
ii	Help in experiments in microplots/research plots for screening of different crops genotypes/ lines against plant parasitic nematodes/diseases/insects /abiotic stresses	Month	12	144000	2195660	109783
iii	Survey and farmers' fields trials work i.e. help in crop sowing, application of agrochemicals, data recording of biotic and abiotic stresses, sampling of soil/water/seed/plant, sample harvesting and	Day	80	48000		

	threshing.			
iv	Mushroom Production work: Composting, Spawning and cultivation of different mushrooms work i.e. help in media/compost/substrates preparation for spawn production, mixing of supplements/ ingredients, turning of compost, spreading, spawning in compost, bagging/ bed preparation/ bundle preparation, shifting, casing operation, spraying in mushroom houses, harvesting, packing, help in data recording etc. cleaning of Mushroom house/ huts, mushroom racks, its surrounding, loading/unloading of agro-waste/ grain/ spent mushroom substrate etc.	Month	12	144000
v	Manual work of cutting, chopping, transportation and spreading of mulch material (polythene, agrowaste)	Quintal	10	6000
vi	Processing of fruits/vegetables/ingredients into value added food products mainly beverages, preserve, candy, confectioneries, jam, jelly, sauce, chutney, pickles, etc. The processing operations include mainly collection of fruits, vegetables and other ingredients, washing, pulping, juice extraction, pricking, blanching, softening, syruring, brining, cooking, concentration, drying, weighing, packing, labelling, storage, cleaning and maintenance of post harvest processing laboratory/pilot plant, utensils/kitchenware, equipments, etc.	Month	12	144000
vii	Bird scaring in research area / isolation per day	Acre / Isolation	1406	857660
viii	Help in table selection and numbering of genotypes of different generation on the basis of seed colour and seed size after threshing	Sample	25000	75000
ix	Tying of genotypes in field for display to monitoring/other teams	Acre	41	49200
x	Manual work of chopping of ear heads and transportation	Acre	11	33000
xi	Manual work of grading, cleaning, sun drying, packing, unpacking, loading/unloading etc. of Nucleus/Breeder/TFL seed.	Qtl	240	60000
xii	Manual work of cleaning/drying/arranging/fumigation of seed store etc. upto 200 square feet	Store	54	32400
xiii)	Manual work of cleaning, washing and repairing of different size cloth seed bags for seed storage	Cloth bag	33500	67000
xiv)	Manual work of cleaning, packing, loading, transport for general seed mixture.	Qtl	1310	104800
xv	Plucking and examination of green and open cotton bolls/fruits/pods for recording of insect pest data	Sample	2500	125000
xvi	Artificial inoculation for diseases/insects	Sample / Plant	3270	98100
xvii	Cleaness and maintenance in and around, farm area, farm lab., threshing floor etc.	square / meter	90250	180500
xviii	Manual work of shifting backward of cloth bags on self-plants	Bags	2000	6000
xix	Manual work of uprooting of iron pipes, bamboos and keeping in store	Piece	500	3000
xx	Bag Down of selfed earhead of Bajra for selection	Acre	6	14400

(C) Detail of Palledari Works: -

S. No.	Name of Palledari operations	Accounting Unit	Details of Area/ Total Unit	Aprrox Expenditure
1.01	Unload the loose grain from the truck or trolley in quintal	Quintal	2300	644
2.01	Filling up of the bag from 21 to 50 kg.	Bag	76631	344840
2.02	Lifting up and lifting down on weighing machine 21 to 50 kg.	Bag	61631	301992
2.03	Sewing of bags 21 to 50 kg.	Bag	71631	121773
2.04	Cutting & opening the bags 21 to 50 kg.	Bag	40793	46912
2.05	Loading in vehicle 21 to 50 kg.	Bag	71008	262730
2.06	Unloading or Stacking 21 to 50 kg.	Bag	148215	681789
2.07	Stacking at double distance 21 to 50 kg.	Bag	5000	2250
3.01	Filling up of the bags from 1 to 20 kg.	Bag	12460	25543
3.02	Lifting up and lifting down on weighing machine of the bags from 1 to 20 kg.	Bag	17160	72072
3.03	Sewing of bag from 1 to 20 kg.	Bag	17160	27456
3.04	Loading in vehicle from 1 to 20 kg.	Bag	16653	26645
3.05	Unloading from stack and opening from 1 to 20 kg.	Bag	500	110
3.06	Unloading from 1 to 20 kg.	Bag	28216	62075
3.07	Stacking at double distance from 1 to 20 kg.	Bag	500	75
4.01	Filling up of the Pallies (पल्ली) of Cotton from 20 k.g to 40 Kg	Unit	500	850
4.02	Lifting up and lifting down on weighing machine from 20 k.g to 40 Kg	Unit	1000	4650
4.03	Loading in vehicle from 20 k.g to 40 Kg	Unit	2500	10000
4.04	Unloading from stack and opening from 20 k.g to 40 Kg	Unit	1000	4750
5.01	Stamping on bags	Bag	47016	91681
5.02	Sealing on bags	Bag	46716	60731
6.01	Loading the bales	Unit	1200	2820
6.02	Unloading the bales	Unit	1200	2820
7.01	Taking out the crates from godown/ warehouse	Crate	840	1176
7.02	Arranging the crates in godown/ warehouse	Crate	840	1176
8.01	Stitching of burst bags	Bag	300	165
8.02	Making bundles of Bags (1 bundle of 25 Bags)	Bundle	1094	4157
8.03	Lifting up and lifting down of Bundles	Bundle	1912	5067
9.01	Cleaning of the bags (one each)	Bag	44451	60009
9.02	Darn of bags (one each)	Bag	2700	6156
10	Tagging, Labeling & Stamping	Bag	41952	57894
11	Fumigation (per cover 32'x21'x16')	Unit	90	8190
12	Cleaning of Seed plant (Cleaning the Machine and floor after finishing of Seed variety)	Job	93	110670
13	Cleaning of processing plant, machinery and equipments, washing of floor, cleaning of hall, Cleaning of seed and grain stores, cleaning of platforms in front of seeds stores, Cleaning of ramps used for raw seed, Cleaning of workshop, Cleaning of building surrounding plant (on monthly basis)	Month	25	1250000
14	Cleaning of crop with seed cleaner and grader (pankha) in qtls	Quintal	12000	360000
15	Sundrying of seeds at seed floor including loading, unloading, spreading manually, covering from tirpal	Quintal	1000	10000
Tender Value for Palledari work			4029866	
EMD			201493	

Dates for start of bid preparation, closing of bid submission and bid opening dates are as under: -

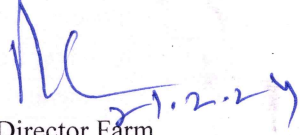
Tender Type	Bid submission start Date	Bid submission end date	Bid opening date
Tenders of Farm Area other than Research	23.02.2024	03.03.2024	04.03.2024
Tenders of Research Farm Area	26.02.2024	06.03.2024	07.03.2024
Tenders of Palledari works	26.02.2024	06.03.2024	07.03.2024

Endst. No. DF/A-1/2024/ 302-97

Dated: 21-02-2024

A copy of the above is forwarded to the following for information and necessary action: They are requested to inform the contractors engaged by them for wide Publicity.

1. Director Farms, HLRDC, Hisar
2. Chief Superintendent, GLF, Hisar
3. Director, CSF, Sirsa Road, Hisar
4. All Dean, Director, HOD, HOS, CCS HAU, Hisar
5. T.A & Cashier (internal)
6. Computer Section, CCS HAU, Hisar is requested to kindly upload the tender notice on university website <http://hau.ac.in>.
7. Notice Board DF/All contractors.


21.2.24
Director Farm