

A. Vani Prasad, I.A.S.

Director General, EPTRI &
Principal Secretary to Government
Government of Telangana



EPTRI
ENVIRONMENT PROTECTION TRAINING &
RESEARCH INSTITUTE

To
Dr. BRR Government Degree College
Department of Botany
Jadcherla, Mahabubnagar
Telangana - 509 301,

W.O.: EPTRI/ENVIS-UFB/Dr. BRR Govt. College /2022-23/ 65 / Dt: 26.04.2022

Sir,

Sub: EPTRI - Engagement of Dr. BRR Government College, Jadcherla to conduct "Collection of Baseline Data (BLD) for 168 Sampling points of Rangareddy (102), Sangareddy (59) and Yadadri (7) districts in Urban Forest Blocks Project" for two seasons -Regarding.

Ref:

1. Dr.BRR Govt. College email dated: 18.04.2022 - Submission of Proposal for the "Action Plan of Bench Mark Study on the Development of Urban Forest Blocks" - pertaining to 168 sampling points
2. MoU between EPTRI & CCE dated: 30th March 2022

With reference cited above, the proposal submitted by Dr. BRR Govt. College, Dept. of Botany, Jadcherla for Rs. 21,86,690/- (Rupees Twenty One Lakh Eighty Six Thousand Six Hundred and Ninety) for conducting Baseline survey for 168 Sampling points of Rangareddy (102), Sangareddy (59) and Yadadri (7) districts in Urban Forest Blocks for two seasons ((March-October) & (November - February)) is accepted as outlined below:

(A) Scope of work

The scope of work to be carried out for two seasons (November - February & March-October), Block-wise details and Coordinates of 168 Sampling points of Rangareddy (102), Sangareddy (59) and Yadadri (7) districts are annexed in Annexure I, II and III respectively. The report shall be compiled block wise and soft copies of the report to be submitted to EPTRI.

(B) Terms of Payment against attainment of 'Milestone'

- i. 50 % shall be paid against mobilization of funds.
- ii. 15% shall be paid against submission of I Season report.
- iii. 15% shall be paid against submission of II Season Report.
- iv. 15% shall be paid after submission of draft Final Report by 31st March 2023
- v. 5% shall be paid after submission of Final Report
- vi. No interim payments will be made.
- vii. Invoice for the release of payment shall be raised in the name of EPTRI, Hyderabad. Dr. BRR Government College shall share complete bank Account details like IFSC code, Bank account No., Branch code and name, MICAR etc. shall be given along with invoice to enable EPTRI for payments to Dr. BRR Bank Account.
- viii. A letter of acceptance may be communicated.

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(C) Terms & Conditions

- I. The Dr. BRR Govt. College shall submit the audited Utilization Certificate along with final report (Soft copy) and photographs with supporting documents
- II. The Dr. BRR Govt. College shall submit the expenditure statement with supporting documents for the expenditure incurred
- III. The Dr. BRR Govt. College shall ensure the reasonability of the rates for expenditure.
- IV. The expenditure should not exceed beyond the sanctioned project cost. No claim of any reason shall be admissible in this regard.
- V. If TDS exemption certificate is available, a copy of the same may be submitted to EPTRI
- VI. PAN Number and GST Registration Number should be explicitly mentioned in Invoice

(D) Secrecy clause

All the data / material reports concerned with this work shall be treated "Confidential" which should not be parted with to any third party without prior written permission from EPTRI & all project related material either in soft copies or hard copies shall be handed over to EPTRI.

Yours faithfully



Director General

Encl: Annexure I, II & III

Copy to

1. The Commissionerate of Collegiate Education
Government of Telangana
Vidya Bhavan
Nampally, Hyderabad - 500001

2. Dr. B. Sadasivaiah
Assistant Professor
Department of Botany
Dr. BRR Govt. College
Jadcherla, Mahabubnagar

1. SCOPE OF WORK

Data has to be collected for two seasons i.e., from March - October and from November – February.

S. No.	Indicators to be assessed	Parameters to be annually quantified after collection of baseline data (BLD)	Methodology
I.	Degree of Degradation	1. Degree of Degradation based on site quality & Crop composition	On the basis of matrix scale of 0-10
		2. Dominance of recalcitrant or retrogressive succession /stable ecosystem indicator species	On sample plot basis
II.	Biodiversity	1. Floristic and faunal composition (especially mammals and birds) composition	On sample plot basis
		2. Floral Biodiversity index (species diversity – Simpson's Index, Important Value Index, (IVI), Shannon-Weiner Index)	
III.	Forest structure	1. Canopy density	On sample plot basis
		2. Tree strand density	
		3. Top 10 tree species and their size class distribution	
		4. Intensity of regeneration from seeds and viable rootstock	
IV.	Forest growth or productivity	1. Basal area & growing stock	On sample plot basis
		2. Carbon stock	
V.	Forest Enabling Conditions	1. Soil depth, Humus soil organic carbon, soil fertility and soil erosion	Dr. BRR Govt. College will collect the soil samples and submit the samples to EPTRI. After soil analysis EPTRI will share the soil results to Dr. BRR Govt. College which will be utilized in the interpretation of the report
		2. Extent of grass and under shrubs	On grid based sampling
		3. Area occupancy by invasive weeds	On grid based sampling
VI.	Regeneration from AR (Plantations)	1. Survival percentage of growth in height in plantation	Random sampling method (50% sampling intensity for survival and 30% for each species for height)
VII.	Status of anthropogenic perturbations	1. Status of protection barrier	Complete perambulation
		2. Fire incidence	On grid sampling basis
		3. Grazing incidence	On grid sampling basis
		4. Removal of biomass	On grid sampling basis
VIII.	Utilization of Lung Space Zone	1. Footfall in visitor zone	From secondary source like entry register

2. BLOCK WISE DETAILS

S.No.	Agency	District	Name of the RF Block	Locality	No. of Plots	Name of the Circle	Division
1	FOREST	Yadagiri	Parvathapur	Parvathapur	7	Hyderabad	Yadagiri
2	FOREST	Rangareddy	Chilkur	Chilkur	8	Rangareddy	Shamshabad
3	FOREST	Rangareddy	Hayatnagar-Cluster	Mansoorabad	21	Rangareddy	Shamshabad
4	HMDA	Rangareddy	Kamadhan	Kamadhan	6	Rangareddy	Amangal
5	HMDA	Rangareddy	Amberpet Kalan	Amberpet Kalan	8	Rangareddy	Shamshabad
6	HMDA	Sangareddy	Jinnaram-Cluster	Jannaram	5	Medak	Sangareddy
	HMDA	Sangareddy		Bonthapally	5	Medak	Sangareddy
	HMDA	Sangareddy		Mangapet	9	Medak	Sangareddy
	HMDA	Sangareddy		Nagawaram	4	Medak	Sangareddy
	HMDA	Sangareddy		Palam	1	Medak	Sangareddy
	HMDA	Sangareddy		Payapally	5	Medak	Sangareddy
7	HMDA	Rangareddy	Srinagar-Cluster	Srinagar	2	Rangareddy	Shamshabad
	HMDA	Rangareddy		Padmati Kancha	7	Rangareddy	Shamshabad
8	HMDA	Rangareddy	Maisaram-Cluster	Maisaram	3	Rangareddy	Shamshabad
	HMDA	Rangareddy		Nagaram	4	Rangareddy	Shamshabad
	HMDA	Rangareddy		Nandpally	2	Rangareddy	Shamshabad
9	TSIIC	Sangareddy	Mambapur-Cluster	Mambapur	14	Medak	Sangareddy
	TSIIC	Sangareddy		Nallavally	7	Medak	Sangareddy
10	TSIIC	Sangareddy	Khazipally-Cluster	Khazipally	8	Medak	Sangareddy
	TSIIC	Sangareddy		Kistaipally	1	Medak	Sangareddy
11	TSIIC	Rangareddy	Eliminedu-Cluster	Eliminedu	13	Rangareddy	Shamshabad
	TSIIC	Rangareddy		Guttalakancha	2	Rangareddy	Shamshabad
	TSIIC	Rangareddy		Kongarakalan	6	Rangareddy	Shamshabad
	TSIIC	Rangareddy		Salonidubba	9	Rangareddy	Shamshabad
12	TSIIC	Rangareddy	Mudimyal	Mudimyal	11	Rangareddy	Shamshabad
			Total	12		168	

Note: 1. The report shall be compiled block wise and soft copies of the report to be shared with EPTRI
2. The study has to be carried out for two seasons

**3. COORDINATES OF 168 SAMPLING POINTS OF RANGAREDDY (102), SANGAREDDY (59)
AND YADADRI (7) DISTRICTS**

S. No.	Compartment No.	District	Section	x	y
1	197	Rangareddy	Mudimyal	17° 19' 15.564"	78° 12' 14.724"
2	197	Rangareddy	Mudimyal	17° 18' 45.144"	78° 11' 40.020"
3	197	Rangareddy	Mudimyal	17° 19' 7.968"	78° 11' 46.076"
4	197	Rangareddy	Mudimyal	17° 18' 59.256"	78° 12' 23.436"
5	197	Rangareddy	Mudimyal	17° 18' 32.688"	78° 11' 23.172"
6	198	Rangareddy	Mudimyal	17° 19' 16.968"	78° 11' 8.232"
7	198	Rangareddy	Mudimyal	17° 19' 1.056"	78° 11' 1.716"
8	198	Rangareddy	Mudimyal	17° 18' 37.116"	78° 10' 40.728"
9	198	Rangareddy	Mudimyal	17° 18' 10.872"	78° 10' 42.240"
10	198	Rangareddy	Mudimyal	17° 18' 24.120"	78° 11' 6.144"
11	198	Rangareddy	Mudimyal	17° 17' 57.984"	78° 11' 12.660"
12	202	Rangareddy	Chilkur	17° 21' 36.072"	78° 20' 12.480"
13	202	Rangareddy	Chilkur	17° 21' 28.872"	78° 19' 42.240"
14	202	Rangareddy	Chilkur	17° 21' 26.568"	78° 20' 28.824"
15	202	Rangareddy	Chilkur	17° 21' 17.604"	78° 20' 56.220"
16	202	Rangareddy	Chilkur	17° 21' 39.060"	78° 21' 5.508"
17	202	Rangareddy	Chilkur	17° 21' 55.548"	78° 21' 28.188"
18	202	Rangareddy	Chilkur	17° 21' 37.656"	78° 21' 30.636"
19	202	Rangareddy	Chilkur	17° 21' 29.736"	78° 21' 21.168"
20	229	Yadadri	Parvathapur	17° 32' 44.952"	78° 42' 6.876"
21	229	Yadadri	Parvathapur	17° 32' 18.564"	78° 42' 7.056"
22	229	Yadadri	Parvathapur	17° 31' 54.912"	78° 42' 21.240"
23	229	Yadadri	Parvathapur	17° 31' 4.836"	78° 42' 57.816"
24	229	Yadadri	Parvathapur	17° 31' 30.864"	78° 43' 19.128"
25	229	Yadadri	Parvathapur	17° 31' 27.048"	78° 44' 9.168"
26	229	Yadadri	Parvathapur	17° 31' 6.132"	78° 43' 22.224"
27	255	Rangareddy	Hayatnagar-Cluster	17° 22' 54.408"	78° 41' 25.404"
28	255	Rangareddy	Hayatnagar-Cluster	17° 22' 49.224"	78° 35' 59.028"
29	255	Rangareddy	Hayatnagar-Cluster	17° 23' 6.756"	78° 35' 37.356"
30	255	Rangareddy	Hayatnagar-Cluster	17° 22' 33.960"	78° 36' 30.744"
31	256	Rangareddy	Hayatnagar-Cluster	17° 22' 38.280"	78° 35' 34.404"
32	256	Rangareddy	Hayatnagar-Cluster	17° 21' 55.044"	78° 38' 35.808"
33	257	Rangareddy	Hayatnagar-Cluster	17° 22' 29.244"	78° 37' 55.884"
34	257	Rangareddy	Hayatnagar-Cluster	17° 21' 56.124"	78° 37' 22.764"
35	257	Rangareddy	Hayatnagar-Cluster	17° 22' 0.336"	78° 37' 43.140"
36	258/1	Rangareddy	Hayatnagar-Cluster	17° 21' 32.220"	78° 38' 6.756"
37	259	Rangareddy	Hayatnagar-Cluster	17° 21' 19.512"	78° 34' 51.960"

S. No.	Compartment No.	District	Section	x	y
38	260	Rangareddy	Hayatnagar-Cluster	17° 22' 13.692"	78° 35' 42.036"
39	260	Rangareddy	Hayatnagar-Cluster	17° 22' 16.392"	78° 36' 0.360"
40	260	Rangareddy	Hayatnagar-Cluster	17° 22' 3.648"	78° 35' 28.104"
41	261	Rangareddy	Hayatnagar-Cluster	17° 22' 44.364"	78° 37' 5.160"
42	261	Rangareddy	Hayatnagar-Cluster	17° 22' 19.488"	78° 37' 17.760"
43	261	Rangareddy	Hayatnagar-Cluster	17° 22' 46.560"	78° 37' 25.752"
44	263	Rangareddy	Amberpet Kalan	17° 20' 5.352"	78° 41' 9.312"
45	263	Rangareddy	Amberpet Kalan	17° 19' 33.708"	78° 41' 25.008"
46	263	Rangareddy	Amberpet Kalan	17° 19' 51.888"	78° 40' 50.016"
47	263	Rangareddy	Amberpet Kalan	17° 19' 53.040"	78° 40' 14.160"
48	264	Rangareddy	Amberpet Kalan	17 19 39.216	78 39 50.796
49	264	Rangareddy	Amberpet Kalan	17 19 40.548	78 40.26.796
50	264	Rangareddy	Amberpet Kalan	17 19 17.796	78 40 14.736
51	264	Rangareddy	Amberpet Kalan	17 19 23.736	78 40 18.552
52	265	Rangareddy	Hayatnagar-Cluster	17 21 16.164	78 35 2.796
53	265	Rangareddy	Hayatnagar-Cluster	17 20 9.780	78 35 12.696
54	265	Rangareddy	Hayatnagar-Cluster	17 20 28.644	78 35 3.984
55	265	Rangareddy	Hayatnagar-Cluster	17 21 2.808	78 34 32.952
56	287	Rangareddy	Eliminedu-Cluster	17 11 11.292	78 30 54.324
57	287	Rangareddy	Eliminedu-Cluster	17 10 53.256	78 30 58.824
58	287	Rangareddy	Eliminedu-Cluster	17 10 40.728	78 30 35.028
59	288	Rangareddy	Eliminedu-Cluster	17 10 26.112	78 31 44.148
60	288	Rangareddy	Eliminedu-Cluster	17 10 3.036	78 32 26.088
61	288	Rangareddy	Eliminedu-Cluster	17 10 38.244	78 32 35.916
62	288	Rangareddy	Eliminedu-Cluster	17 10 32.232	78 32 15.576
63	288	Rangareddy	Eliminedu-Cluster	17 10 19.020	78 31 59.160
64	288	Rangareddy	Eliminedu-Cluster	17 10 31.944	78 31 35.868
65	289	Rangareddy	Eliminedu-Cluster	17 09 41.292	78 32 48.876
66	289	Rangareddy	Eliminedu-Cluster	17 09 22.716	78 32 17.520
67	290	Rangareddy	Eliminedu-Cluster	17 09. 42.588	78 33 44.388
68	290	Rangareddy	Eliminedu-Cluster	17 10 2.604	78 33 79.788
69	290	Rangareddy	Eliminedu-Cluster	17 10 52. 320	78 34 11. 820
70	290	Rangareddy	Eliminedu-Cluster	17 10 36.948	78 33 49.788
71	290	Rangareddy	Eliminedu-Cluster	17 10 24.168	78 33 16.380
72	290	Rangareddy	Eliminedu-Cluster	17 10 0.156	78 33 7.452
73	290	Rangareddy	Eliminedu-Cluster	17 09 36.900	78 33 10.224
74	290	Rangareddy	Eliminedu-Cluster	17 10 4.620	78 34 5.952
75	290	Rangareddy	Eliminedu-Cluster	17 10 26.472	78 34 32.736
76	290	Rangareddy	Eliminedu-Cluster	17 10 32.952	78 34 11.640
77	290	Rangareddy	Eliminedu-Cluster	17 09 35.064	78 34 16.284
78	290	Rangareddy	Eliminedu-Cluster	17 09 59.688	78 33 41.472
79	290	Rangareddy	Eliminedu-Cluster	17 10 19. 092	78 34 25.680
80	331	Rangareddy	Srinagar-Cluster	17 10 2.388	78 29 27.024

S. No.	Compartment No.	District	Section	x	y
81	331	Rangareddy	Srinagar-Cluster	17 09 58.716	78 29 4.848
82	331	Rangareddy	Srinagar-Cluster	17 09 34.020	78 28 58.296
83	331	Rangareddy	Srinagar-Cluster	17 09 14.868	78 28 58.404
84	331	Rangareddy	Srinagar-Cluster	17 08 59.136	78 29 16.944
85	331	Rangareddy	Srinagar-Cluster	17 09 20.304	78 29 40.884
86	331	Rangareddy	Srinagar-Cluster	17 08 51.684	78 28 59.052
87	332	Rangareddy	Srinagar-Cluster	17 10 12.288	78 28 58.728
88	332	Rangareddy	Srinagar-Cluster	17 10 52.752	78 28 27.228
89	333	Sangareddy	Mambapur-Cluster	17 42 30.492	78 19 26.280
90	333	Sangareddy	Mambapur-Cluster	17 42 29.232	78 19 51.060
91	333	Sangareddy	Mambapur-Cluster	17 42 14.472	78 21 3.276
92	333	Sangareddy	Mambapur-Cluster	17 42 39.312	78 20 27.492
93	333	Sangareddy	Mambapur-Cluster	17 42 14.832	78 21 23.400
94	333	Sangareddy	Mambapur-Cluster	17 42 44.244	78 19 23.664
95	333	Sangareddy	Mambapur-Cluster	17 42 11.376	78 20 17.412
96	334	Rangareddy	Eliminedu-Cluster	17 10 23.520	78 30 37.692
97	334	Rangareddy	Eliminedu-Cluster	17 9 42.696	78 30 40.788
98	334	Rangareddy	Eliminedu-Cluster	17 9 42.480	78 31 18.516
99	334	Rangareddy	Eliminedu-Cluster	17 9 58.284	78 31 43.320
100	334	Rangareddy	Eliminedu-Cluster	17 10 12.828	78 31 9.912
101	334	Rangareddy	Eliminedu-Cluster	17 10 24.744	78 30 15.948
102	335	Sangareddy	Mambapur-Cluster	17 41 44.844	78 19 31.296
103	335	Sangareddy	Mambapur-Cluster	17 42 3.204	78 19 44.508
104	335	Sangareddy	Mambapur-Cluster	17 41 36.168	78 20 6.756
105	335	Sangareddy	Mambapur-Cluster	17 41 29.004	78 19 28.776
106	335	Sangareddy	Mambapur-Cluster	17 40 37.200	78 19 38.712
107	335	Sangareddy	Mambapur-Cluster	17 41 10.752	78 19 51.528
108	335	Sangareddy	Mambapur-Cluster	17 40 38.820	78 20 1.860
109	336	Rangareddy (Pahadi shareef)	Maisaram-Cluster	17 10 27.696	78 25 20.568
110	336	Rangareddy (Pahadi shareef)	Maisaram-Cluster	17 10 9.372	78 24 59.616
111	336	Rangareddy (Pahadi shareef)	Maisaram-Cluster	17 10 2.280	78 25 37.056
112	336	Sangareddy	Mambapur-Cluster	17 41 46.860	78 21 16.668
113	336	Sangareddy	Mambapur-Cluster	17 42 4.464	78 20 58.812
114	336	Sangareddy	Mambapur-Cluster	17 41 48.372	78 20 29.760
115	336	Sangareddy	Mambapur-Cluster	17 40 43.860	78 20 34.296
116	336	Sangareddy	Mambapur-Cluster	17 41 20.688	78 20 27.636
117	336	Sangareddy	Mambapur-Cluster	17 41 50.244	78 21 28.620
118	336	Sangareddy	Mambapur-Cluster	17 40 57.036	78 20 16.692
119	338	Sangareddy	Wailal	17 39 52.200	78 17 56.832
120	338	Sangareddy	Wailal	17 39 56.520	78 18 21.096
121	338	Sangareddy	Wailal	17 39 44.604	78 18 46.440

S. No.	Compart-ment No.	District	Section	x	y
122	338	Sangareddy	Wailal	17 39 18.900	78 18 54.252
123	338	Sangareddy	Wailal	17 39 36.144	78 17 47.220
124	339	Rangareddy	Maisaram-Cluster	17 10 44.292	78 25 13.692
125	339	Rangareddy	Maisaram-Cluster	17 11 4.560	78 25 15.708
126	339	Sangareddy	Wailal mangapet	17 40 7.824	78 19 28.668
127	339	Sangareddy	Jinnaram-Cluster	17 40 1.776	78 19 53.184
128	339	Sangareddy	Jinnaram-Cluster	17 39 47.880	78 19 41.664
129	339	Sangareddy	Jinnaram-Cluster	17 39 15.264	78 19 51.708
130	339	Sangareddy	Jinnaram-Cluster	17 39 27.072	78 19 54.372
131	340	Medchal (Shamshabad)	Pahadi shareef - Nagaram	17 9 54.900	78 24 15.264
132	340	Medchal (Shamshabad)	Pahadi shareef - Nagaram	17 10 23.412	78 24 46.080
133	340	Medchal (Shamshabad)	Pahadi shareef - Nagaram	17 10 1.812	78 24 49.528
134	340	Medchal (Shamshabad)	Pahadi shareef - Nagaram	17 9 41.580	78 24 27.396
135	340	Sangareddy	Wailal mangapet	17 39 26.460	78 19 41.520
136	340	Sangareddy	Wailal mangapet	17 39 7.740	78 19 9.336
137	340	Sangareddy	Wailal mangapet	17 38 46.896	78 19 43.716
138	340	Sangareddy	Wailal mangapet	17 39 16.740	78 19 30.144
139	341	Sangareddy	Wailal mangapet	17 38 33.324	78 19 29.964
140	342	Sangareddy	Gummadidalla	17 39 55.800	78 20 29.470
141	342	Sangareddy	Gummadidalla	17 39 34.668	78 20 31.272
142	342	Sangareddy	Gummadidalla	17 39 13.896	78 20 51.936
143	342	Sangareddy	Gummadidalla	17 40 7.824	78 20 15.072
144	342	Sangareddy	Gummadidalla	17 39 32.976	78 20 8.484
145	343	Sangareddy	Gummadidalla	17 38 45.528	78 20 26.340
146	343	Sangareddy	Gummadidalla	17 38 26.484	78 20 49.020
147	343	Sangareddy	Gummadidalla	17 39 16.884	78 20 12.192
148	343	Sangareddy	Gummadidalla	19 39 9.036	78 20 33.000
149	343	Sangareddy	Gummadidalla	17 38 28.392	78 20 10.968
150	351	Sangareddy	Khazipally-Cluster	17 35 18.600	78 22 7.032
151	352	Sangareddy	Khazipally-Cluster	17 34 36.192	78 22 15.780
152	352	Sangareddy	Khazipally-Cluster	17 34 18.588	78 21 29.448
153	352	Sangareddy	Khazipally-Cluster	17 34 34.896	78 21 22.680
154	352	Sangareddy	Khazipally-Cluster	17 34 47.316	78 21 37.800
155	352	Sangareddy	Khazipally-Cluster	17 34 25.752	78 22 38.964
156	352	Sangareddy	Khazipally-Cluster	17 34 24.816	78 22 12.756
157	352	Sangareddy	Khazipally-Cluster	17 35 0.420	78 21 55.260
158	352	Sangareddy	Khazipally-Cluster	17 34 33.168	78 21 48.240
159	412	Rangareddy	Kamadhan	17 1 43.716	78 15 3.816
160	412	Rangareddy	Kamadhan	17 2 2.868	78 14 56.436
161	412	Rangareddy	Kamadhan	17 2 29.076	78 14 29.904

S. No.	Compartment No.	District	Section	x	y
162	412	Rangareddy	Kamadhan	17 2 16.476	78 14 5.532
163	412	Rangareddy	Kamadhan	17 2 34.296	78 14 4.524
164	412	Rangareddy	Kamadhan	17 2 29.508	78 13 53.256
165	337/1	Sangareddy	Wailal - Naguaram	17 40 32.448	78 18 19.584
166	337/1	Sangareddy	Wailal - Naguaram	17 40 2.856	78 16 50.376
167	337/1	Sangareddy	Wailal - Naguaram	17 40 19.740	78 17 13.632
168	337/1	Sangareddy	Wailal - Naguaram	17 40 35.832	78 17 36.240