

**Table 4. List of Values for Parameters**

ME 308

MACHINE ELEMENTS II 2021-2022 FIRST PROJECT EXTENSION &amp; COMPRESSION SPRING(DT)

| NO | SURNAME, NAME                 | Lpipe | mpipe | Dp | t | density | R     | n    | Na min | D washer | d rod | y max | Spring Material   | Springs are |
|----|-------------------------------|-------|-------|----|---|---------|-------|------|--------|----------|-------|-------|-------------------|-------------|
| 1  | AHMET ABRA                    | 4     | 4     | 20 | 2 | 1257    | 90    | 2.5  | 5      | 68       | 13    | 14    | Oil tempered wire | peened      |
| 2  | EMİNCAN AÇIKEL                | 4     | 3     | 17 | 3 | 1425    | 95    | 2    | 4      | 57       | 15    | 13    | Hard drawn wire   | unpeened    |
| 3  | ABDULKADER AKOUSH             | 4     | 2     | 16 | 3 | 1207    | 99    | 2.25 | 6      | 56       | 9     | 10    | Chrome vanadium   | peened      |
| 4  | OMAR KHALID MOSLEH AL THIBANY | 5     | 4     | 17 | 3 | 1463    | 99.9  | 2.5  | 5      | 54       | 10    | 11    | Chrome silicon    | peened      |
| 5  | MELİH BURAK ALBAYRAM          | 5     | 3     | 19 | 2 | 1034    | 99.99 | 2.75 | 4      | 58       | 14    | 13    | Music wire        | peened      |
| 6  | MUHAMMED İKBAL ARIKAN         | 3     | 4     | 17 | 1 | 1184    | 90    | 3    | 5      | 50       | 10    | 10    | BS 5216 Grade 4   | peened      |
| 7  | ALPTUĞ ARSLAN                 | 3     | 3     | 19 | 3 | 1382    | 95    | 2.5  | 4      | 70       | 12    | 13    | Oil tempered wire | peened      |
| 8  | ABDULAZİZ ASLAN               | 3     | 2     | 20 | 2 | 1181    | 99    | 2    | 5      | 64       | 11    | 11    | Hard drawn wire   | unpeened    |
| 9  | ERDİNÇ ASLAN                  | 4     | 4     | 19 | 3 | 1403    | 99.9  | 2.25 | 5      | 53       | 11    | 10    | Chrome vanadium   | peened      |
| 10 | ABDULSAMET ATILAN             | 5     | 3     | 19 | 3 | 1144    | 99.99 | 2.5  | 4      | 50       | 12    | 12    | Chrome silicon    | peened      |
| 11 | KHANT PHYO AUNG               | 3     | 2     | 17 | 1 | 1081    | 90    | 2.75 | 6      | 61       | 14    | 10    | Oil tempered wire | unpeened    |
| 12 | SERKAN AYHAN                  | 4     | 3     | 19 | 2 | 1261    | 95    | 3    | 7      | 80       | 10    | 12    | Hard drawn wire   | unpeened    |
| 13 | MUHAMMET ALİ BAĞCI            | 4     | 4     | 16 | 3 | 1140    | 99    | 2.5  | 5      | 72       | 10    | 10    | Hard drawn wire   | peened      |
| 14 | SÜLEYMAN EMRE BALCI           | 4     | 3     | 20 | 2 | 1204    | 99.9  | 2    | 7      | 50       | 9     | 14    | Chrome vanadium   | unpeened    |
| 15 | MEHMET ŞÜKRÜ BALOĞLU          | 4     | 2     | 20 | 1 | 1070    | 99.99 | 2.25 | 6      | 58       | 11    | 12    | Chrome silicon    | unpeened    |
| 16 | ENES EMRE BOLAT               | 3     | 3     | 19 | 3 | 1304    | 99.9  | 2.5  | 6      | 55       | 11    | 10    | Oil tempered wire | unpeened    |
| 17 | CAFER BUĞDAYCI                | 4     | 4     | 20 | 1 | 1113    | 99.99 | 2.75 | 7      | 58       | 13    | 13    | Hard drawn wire   | unpeened    |
| 18 | MEHMET BULUŞ                  | 3     | 3     | 19 | 3 | 1095    | 90    | 3    | 7      | 75       | 13    | 11    | Chrome vanadium   | unpeened    |
| 19 | CENGİZ EMRE BÜYÜKERDEM        | 4     | 3     | 18 | 1 | 1408    | 95    | 2.5  | 5      | 71       | 9     | 14    | Chrome silicon    | unpeened    |
| 20 | YAVUZ CAN                     | 4     | 2     | 17 | 3 | 1137    | 99    | 2    | 4      | 80       | 10    | 12    | Music wire        | unpeened    |
| 21 | YUNUS EMRE CESUR              | 4     | 2     | 16 | 3 | 1377    | 99.9  | 2.25 | 6      | 78       | 14    | 12    | BS 5216 Grade 4   | unpeened    |
| 22 | ADEM MERT ÇAKICI              | 5     | 4     | 19 | 3 | 1031    | 99.99 | 2.5  | 4      | 74       | 10    | 13    | Oil tempered wire | unpeened    |
| 23 | GÖRKEM ÇELİK                  | 3     | 3     | 16 | 1 | 1306    | 90    | 2.75 | 4      | 53       | 12    | 13    | Hard drawn wire   | unpeened    |
| 24 | AHMET ÇELİKÇİ                 | 4     | 3     | 20 | 1 | 1022    | 95    | 3    | 6      | 53       | 14    | 13    | Chrome vanadium   | unpeened    |
| 25 | YUNUS EMRE ÇİMEN              | 5     | 3     | 18 | 1 | 1343    | 99    | 2.5  | 6      | 58       | 10    | 10    | Chrome silicon    | unpeened    |
| 26 | BURAK ÇORAK                   | 5     | 2     | 20 | 3 | 1290    | 99.9  | 2    | 4      | 80       | 9     | 12    | Music wire        | unpeened    |
| 27 | EBRU DAĞDEVİREN               | 4     | 3     | 20 | 3 | 1363    | 99.99 | 2.25 | 7      | 68       | 15    | 14    | BS 5216 Grade 4   | unpeened    |
| 28 | VAEL DEBSİ                    | 5     | 2     | 20 | 2 | 1047    | 99    | 2.5  | 6      | 53       | 9     | 10    | Oil tempered wire | unpeened    |
| 29 | CAHİT YUNUS EMRE DEMİREL      | 4     | 3     | 18 | 3 | 1136    | 99.9  | 2.75 | 4      | 70       | 15    | 12    | Hard drawn wire   | unpeened    |
| 30 | İREM DİRDİYOK                 | 3     | 3     | 18 | 1 | 1336    | 99.99 | 3    | 4      | 58       | 13    | 12    | Chrome vanadium   | unpeened    |
| 31 | BARAN DENİZ DOĞAN             | 5     | 4     | 20 | 3 | 1119    | 90    | 2.5  | 5      | 64       | 12    | 11    | Oil tempered wire | peened      |

|    |                        |   |   |    |   |      |       |      |   |    |    |    |                   |          |
|----|------------------------|---|---|----|---|------|-------|------|---|----|----|----|-------------------|----------|
| 32 | OĞUZ DOĞAN             | 5 | 3 | 19 | 1 | 1467 | 95    | 2.75 | 4 | 76 | 11 | 13 | Hard drawn wire   | unpeened |
| 33 | SERHAT DOLUNAY         | 4 | 2 | 17 | 2 | 1467 | 99    | 3    | 4 | 69 | 14 | 14 | Chrome vanadium   | peened   |
| 34 | FERHAT DURAK           | 3 | 3 | 20 | 3 | 1425 | 99.9  | 2.5  | 5 | 54 | 9  | 13 | Chrome silicon    | unpeened |
| 35 | NEVZAT DURMUŞ          | 3 | 4 | 18 | 2 | 1048 | 99.99 | 2    | 4 | 78 | 10 | 10 | Music wire        | peened   |
| 36 | MUHAMMET OĞUZ ELMA     | 4 | 2 | 19 | 3 | 1010 | 90    | 2.25 | 7 | 71 | 12 | 14 | BS 5216 Grade 4   | unpeened |
| 37 | YUSUF ERBAĞCI          | 3 | 2 | 16 | 2 | 1157 | 95    | 2.5  | 7 | 70 | 14 | 12 | Oil tempered wire | peened   |
| 38 | HAKAN EREN             | 5 | 3 | 18 | 2 | 1032 | 99    | 2.75 | 7 | 70 | 13 | 10 | Hard drawn wire   | unpeened |
| 39 | HÜSEYİN YAĞIZ ERGİN    | 4 | 4 | 18 | 3 | 1438 | 99.9  | 3    | 6 | 54 | 15 | 11 | Chrome vanadium   | peened   |
| 40 | ERAY ERYILMAZ          | 4 | 3 | 19 | 3 | 1249 | 99.99 | 2.5  | 4 | 52 | 13 | 13 | Chrome silicon    | unpeened |
| 41 | MUSTAFA ESKİ           | 5 | 4 | 18 | 3 | 1037 | 90    | 2    | 5 | 54 | 13 | 13 | Music wire        | peened   |
| 42 | MÜCAHİD ESKİCİOĞLU     | 5 | 2 | 20 | 3 | 1434 | 95    | 2.25 | 6 | 72 | 14 | 13 | BS 5216 Grade 4   | unpeened |
| 43 | ALTAN BERDAN EVSEN     | 3 | 3 | 17 | 1 | 1417 | 99    | 2.5  | 5 | 78 | 8  | 10 | BS 5216 Grade 5   | peened   |
| 44 | HASAN ASRINSU FIÇICI   | 5 | 3 | 18 | 2 | 1329 | 99.9  | 2.75 | 7 | 64 | 11 | 10 | Oil tempered wire | unpeened |
| 45 | AHMET FIRTINA          | 4 | 4 | 20 | 3 | 1112 | 99.99 | 3    | 7 | 72 | 14 | 11 | Hard drawn wire   | peened   |
| 46 | BERKAN GELİNCİK        | 4 | 2 | 17 | 3 | 1419 | 90    | 2.5  | 6 | 69 | 13 | 10 | Chrome silicon    | unpeened |
| 47 | EMİR TALAT GÖKTEPE     | 4 | 2 | 20 | 1 | 1300 | 95    | 2.75 | 6 | 62 | 12 | 14 | Hard drawn wire   | peened   |
| 48 | ALİ GÜNEŞ              | 5 | 3 | 17 | 2 | 1237 | 99    | 3    | 6 | 79 | 8  | 10 | Chrome vanadium   | unpeened |
| 49 | MEHMET İSLAM GÜRBÜZ    | 5 | 2 | 18 | 2 | 1220 | 99.9  | 2.5  | 4 | 70 | 12 | 11 | Chrome silicon    | peened   |
| 50 | MUSA GÜVEN             | 5 | 3 | 19 | 1 | 1415 | 99.99 | 2    | 5 | 59 | 13 | 12 | Music wire        | unpeened |
| 51 | NASIR HACİBOZAN        | 3 | 2 | 16 | 1 | 1310 | 99.99 | 2.25 | 7 | 55 | 9  | 10 | BS 5216 Grade 4   | peened   |
| 52 | HASSAN MAHAD HASSAN    | 5 | 2 | 17 | 2 | 1099 | 90    | 2.5  | 6 | 67 | 12 | 13 | BS 5216 Grade 5   | unpeened |
| 53 | MOHAMMAD QUTAIBA HEREH | 4 | 3 | 19 | 1 | 1323 | 95    | 2.75 | 6 | 79 | 11 | 14 | Oil tempered wire | unpeened |
| 54 | ILKIN HUSEYNZADE       | 4 | 4 | 17 | 2 | 1260 | 99    | 3    | 5 | 60 | 10 | 14 | Hard drawn wire   | unpeened |
| 55 | FEYYAZ İNANÇ           | 4 | 3 | 18 | 2 | 1377 | 99.9  | 2.5  | 7 | 51 | 8  | 10 | Chrome silicon    | unpeened |
| 56 | EMİR İŞLEM             | 5 | 4 | 16 | 1 | 1279 | 99.99 | 2    | 5 | 80 | 15 | 11 | Music wire        | unpeened |
| 57 | FURKAN KABALAR         | 3 | 3 | 20 | 2 | 1244 | 90    | 2.25 | 7 | 80 | 12 | 12 | BS 5216 Grade 4   | unpeened |
| 58 | FURKAN KALLE           | 3 | 4 | 20 | 3 | 1317 | 95    | 2.5  | 7 | 58 | 13 | 12 | Hard drawn wire   | peened   |
| 59 | ÖMER FARUK KARA        | 3 | 2 | 19 | 2 | 1264 | 99    | 2.75 | 7 | 78 | 10 | 11 | Chrome vanadium   | unpeened |
| 60 | KEREM KARABULUT        | 5 | 4 | 19 | 2 | 1293 | 99.9  | 3    | 4 | 58 | 13 | 14 | Chrome silicon    | peened   |
| 61 | FATİH KARADAMAR        | 3 | 2 | 18 | 1 | 1188 | 99.99 | 2    | 5 | 72 | 8  | 12 | Music wire        | unpeened |
| 62 | MEHMET ZİYA KARAGÖZ    | 3 | 4 | 19 | 1 | 1259 | 99    | 2.25 | 4 | 66 | 10 | 11 | BS 5216 Grade 4   | peened   |
| 63 | ÖMER FARUK KARPUZCU    | 3 | 3 | 16 | 2 | 1195 | 99.9  | 2.5  | 7 | 80 | 9  | 10 | Oil tempered wire | unpeened |
| 64 | YUSUF KASAKOLU         | 4 | 3 | 19 | 3 | 1282 | 99.99 | 2.75 | 6 | 78 | 10 | 13 | Hard drawn wire   | peened   |
| 65 | BAHRİ SERDAR KAŞ       | 3 | 3 | 18 | 3 | 1051 | 90    | 3    | 5 | 58 | 11 | 12 | Chrome vanadium   | unpeened |
| 66 | MEHMET FATİH KAYA      | 5 | 2 | 18 | 3 | 1160 | 95    | 2.5  | 5 | 60 | 9  | 11 | Chrome silicon    | peened   |
| 67 | AYKUT KAYIHAN          | 4 | 2 | 17 | 3 | 1434 | 99    | 2.75 | 7 | 50 | 9  | 12 | Music wire        | unpeened |

|     |                         |   |   |    |   |      |       |      |   |    |    |    |                   |          |
|-----|-------------------------|---|---|----|---|------|-------|------|---|----|----|----|-------------------|----------|
| 68  | MELİH CAN KAYIKÇI       | 5 | 4 | 19 | 1 | 1450 | 99.9  | 3    | 5 | 71 | 11 | 10 | BS 5216 Grade 4   | peened   |
| 69  | MEHMET KAAN KESKİNTİMUR | 5 | 4 | 17 | 1 | 1469 | 99.99 | 2.5  | 7 | 73 | 9  | 10 | BS 5216 Grade 5   | unpeened |
| 70  | VOLKAN KESKİNTİMUR      | 5 | 2 | 19 | 3 | 1270 | 90    | 2.75 | 6 | 59 | 8  | 14 | Oil tempered wire | peened   |
| 71  | BERDAR KILIÇ            | 4 | 2 | 19 | 2 | 1228 | 95    | 3    | 6 | 72 | 8  | 12 | Hard drawn wire   | unpeened |
| 72  | UĞUR KILIÇ              | 5 | 2 | 17 | 2 | 1189 | 99    | 2.5  | 6 | 78 | 15 | 11 | Chrome silicon    | unpeened |
| 73  | MUSTAFA BURAK KOCA      | 4 | 4 | 16 | 2 | 1057 | 99.9  | 2.75 | 6 | 80 | 10 | 13 | Music wire        | unpeened |
| 74  | EDA NUR KOÇ             | 3 | 3 | 19 | 1 | 1170 | 99.99 | 3    | 7 | 75 | 9  | 14 | BS 5216 Grade 4   | unpeened |
| 75  | TURAN KOÇER             | 4 | 2 | 19 | 3 | 1064 | 90    | 2.25 | 7 | 50 | 13 | 10 | Oil tempered wire | peened   |
| 76  | AHMET KÖKLÜ             | 4 | 2 | 18 | 2 | 1323 | 90    | 2.5  | 5 | 77 | 12 | 10 | Hard drawn wire   | unpeened |
| 77  | MEHMET KURT             | 4 | 4 | 20 | 1 | 1276 | 95    | 2.75 | 7 | 72 | 14 | 14 | Chrome vanadium   | peened   |
| 78  | AHMET SELİM KUTUKIZ     | 5 | 2 | 18 | 2 | 1183 | 99    | 3    | 4 | 70 | 10 | 11 | Chrome silicon    | unpeened |
| 79  | OĞUZHAN KÜÇÜKDURAN      | 4 | 2 | 17 | 3 | 1106 | 99.9  | 2.5  | 5 | 65 | 10 | 12 | Music wire        | peened   |
| 80  | MUHAMMED ALİ MANSUR     | 3 | 4 | 18 | 2 | 1019 | 99.99 | 2.25 | 7 | 58 | 11 | 10 | BS 5216 Grade 4   | unpeened |
| 81  | TANER MULLAHAMUT        | 4 | 3 | 19 | 1 | 1458 | 90    | 2.5  | 6 | 78 | 15 | 12 | BS 5216 Grade 5   | peened   |
| 82  | EKİN OĞUZ               | 5 | 2 | 19 | 2 | 1073 | 95    | 2.75 | 5 | 65 | 9  | 13 | Oil tempered wire | unpeened |
| 83  | ALİ OTHMAN              | 4 | 3 | 17 | 2 | 1100 | 99    | 3    | 5 | 72 | 8  | 11 | Hard drawn wire   | peened   |
| 84  | HAKAN ÖZ                | 3 | 4 | 20 | 3 | 1399 | 99.9  | 2.5  | 7 | 55 | 8  | 10 | Chrome vanadium   | unpeened |
| 85  | ENES ERKAN ÖZCAN        | 4 | 4 | 19 | 2 | 1487 | 99.99 | 2.75 | 4 | 53 | 15 | 11 | Chrome silicon    | peened   |
| 86  | ALİ ÖZDEMİR             | 5 | 2 | 18 | 1 | 1069 | 90    | 3    | 6 | 61 | 12 | 10 | Music wire        | unpeened |
| 87  | HALİL İBRAHİM ÖZDEMİR   | 4 | 4 | 16 | 1 | 1098 | 95    | 2.5  | 6 | 53 | 8  | 10 | Oil tempered wire | unpeened |
| 88  | SELAMİ ÖZDEMİR          | 5 | 2 | 16 | 1 | 1447 | 99    | 2.75 | 5 | 57 | 11 | 11 | Hard drawn wire   | unpeened |
| 89  | GÜLÇEHRE ÖZER           | 3 | 2 | 20 | 3 | 1249 | 99.9  | 3    | 4 | 71 | 11 | 11 | Chrome vanadium   | unpeened |
| 90  | ZÜLKÜF ÖZER             | 3 | 2 | 20 | 2 | 1097 | 99.99 | 2.25 | 5 | 59 | 15 | 10 | Chrome silicon    | unpeened |
| 91  | OZAN ÖZGEN              | 5 | 2 | 18 | 2 | 1205 | 90    | 2.5  | 5 | 62 | 14 | 12 | Music wire        | peened   |
| 92  | ENES ÖZHAN              | 5 | 3 | 20 | 1 | 1232 | 95    | 2.75 | 6 | 73 | 10 | 14 | BS 5216 Grade 4   | unpeened |
| 93  | YUSUF ARDA ÖZMADEN      | 3 | 3 | 20 | 3 | 1357 | 99    | 3    | 5 | 61 | 13 | 10 | BS 5216 Grade 5   | peened   |
| 94  | ABDULSAMET ÖZÖRNEK      | 4 | 4 | 19 | 3 | 1491 | 99.9  | 2.5  | 7 | 76 | 12 | 12 | Oil tempered wire | unpeened |
| 95  | SELİNAY ÖZPINAR         | 5 | 2 | 17 | 3 | 1460 | 99.9  | 2.75 | 5 | 67 | 11 | 12 | Chrome vanadium   | peened   |
| 96  | HALİL İBRAHİM ÖZTÜRK    | 5 | 3 | 19 | 2 | 1304 | 99.99 | 3    | 6 | 56 | 12 | 11 | Chrome silicon    | peened   |
| 97  | ORKUN ÖZTÜRK            | 5 | 2 | 18 | 3 | 1485 | 90    | 2    | 6 | 61 | 13 | 11 | Music wire        | peened   |
| 98  | GÜVEN PARLAK            | 3 | 2 | 20 | 3 | 1423 | 95    | 2.25 | 5 | 58 | 14 | 10 | BS 5216 Grade 4   | peened   |
| 99  | HASAN ERCE PARS         | 3 | 3 | 17 | 3 | 1245 | 99    | 2.5  | 4 | 55 | 15 | 13 | Oil tempered wire | peened   |
| 100 | ORKUN PEKSEL            | 5 | 3 | 17 | 2 | 1036 | 99.9  | 2.75 | 4 | 59 | 12 | 10 | Oil tempered wire | unpeened |
| 101 | CENGİZHAN PINAR         | 5 | 4 | 19 | 1 | 1381 | 99.99 | 3    | 5 | 75 | 12 | 14 | Hard drawn wire   | peened   |
| 102 | YILDIRIM ATAKAN POLAT   | 4 | 3 | 18 | 3 | 1009 | 99.9  | 2.5  | 6 | 55 | 13 | 11 | Chrome vanadium   | peened   |
| 103 | ALİ YILMAZ PORTAKAL     | 5 | 3 | 20 | 3 | 1239 | 99.99 | 2.75 | 5 | 79 | 9  | 11 | Chrome silicon    | peened   |

|     |                         |   |   |    |   |      |       |      |   |    |    |    |                   |          |
|-----|-------------------------|---|---|----|---|------|-------|------|---|----|----|----|-------------------|----------|
| 104 | TOJO TSLAVINA RAJAONARY | 4 | 3 | 18 | 1 | 1101 | 90    | 3    | 4 | 65 | 8  | 12 | Music wire        | peened   |
| 105 | TUĞÇE SARIOĞLU          | 4 | 2 | 17 | 3 | 1418 | 95    | 2    | 6 | 56 | 13 | 11 | BS 5216 Grade 4   | peened   |
| 106 | HALİL SERT              | 4 | 2 | 17 | 1 | 1414 | 99    | 2.25 | 6 | 78 | 12 | 10 | Oil tempered wire | unpeened |
| 107 | İBRAHİM TAHA SOLMAZ     | 3 | 2 | 19 | 2 | 1334 | 99.9  | 2.5  | 6 | 68 | 13 | 11 | Oil tempered wire | unpeened |
| 108 | SULTAN TUÇE SÖNMEZ      | 5 | 2 | 18 | 2 | 1418 | 99.99 | 2.75 | 5 | 79 | 9  | 10 | Hard drawn wire   | unpeened |
| 109 | SERHAT SÜMER            | 3 | 3 | 19 | 3 | 1477 | 90    | 3    | 5 | 70 | 11 | 14 | Chrome vanadium   | unpeened |
| 110 | ALİ HÜSEYİN SÜRME       | 5 | 4 | 20 | 1 | 1294 | 95    | 2    | 6 | 66 | 11 | 10 | Chrome silicon    | unpeened |
| 111 | EDİP EMRE ŞAHUTOĞLU     | 5 | 3 | 17 | 3 | 1293 | 99    | 2.5  | 6 | 71 | 10 | 14 | Music wire        | peened   |
| 112 | SAMET ŞEN               | 4 | 4 | 19 | 3 | 1118 | 99.9  | 2.75 | 5 | 69 | 9  | 11 | BS 5216 Grade 4   | peened   |
| 113 | MEHMET TANLAK           | 3 | 2 | 20 | 2 | 1150 | 99.99 | 3    | 6 | 62 | 11 | 11 | Oil tempered wire | peened   |
| 114 | BURAK TEMUÇİN           | 3 | 2 | 20 | 1 | 1185 | 99    | 2    | 6 | 64 | 15 | 14 | Oil tempered wire | peened   |
| 115 | EREN TOPRAKCI           | 3 | 3 | 17 | 2 | 1489 | 99.9  | 2.25 | 5 | 78 | 14 | 14 | Hard drawn wire   | unpeened |
| 116 | GÖKTUĞ TOSUNOĞLU        | 4 | 4 | 19 | 3 | 1043 | 99.99 | 2.5  | 5 | 76 | 10 | 13 | Chrome vanadium   | peened   |
| 117 | YUSUF TÖRÜNER           | 5 | 4 | 20 | 2 | 1275 | 90    | 2.75 | 5 | 63 | 11 | 11 | Chrome silicon    | peened   |
| 118 | MEHMET BAHA TUFAN       | 3 | 3 | 18 | 2 | 1089 | 95    | 3    | 5 | 56 | 11 | 13 | Music wire        | peened   |
| 119 | MEMET TUNÇEKİN          | 3 | 3 | 18 | 1 | 1074 | 99    | 2    | 5 | 74 | 8  | 14 | BS 5216 Grade 4   | peened   |
| 120 | TAHA TÜRKAN             | 5 | 2 | 20 | 2 | 1253 | 99.9  | 2.25 | 4 | 66 | 9  | 14 | Oil tempered wire | peened   |
| 121 | İLKER UÇANSU            | 5 | 4 | 20 | 1 | 1480 | 99.99 | 2.5  | 5 | 60 | 15 | 14 | Oil tempered wire | peened   |
| 122 | VEYSEL ULUTAŞ           | 5 | 2 | 19 | 1 | 1152 | 90    | 2.75 | 4 | 63 | 8  | 11 | Hard drawn wire   | peened   |
| 123 | EMRE YALÇIN             | 5 | 3 | 20 | 1 | 1209 | 95    | 3    | 6 | 68 | 14 | 12 | Chrome vanadium   | unpeened |
| 124 | MUHAMMED BATUHAN YALÇIN | 4 | 4 | 19 | 2 | 1101 | 99    | 2.5  | 5 | 68 | 8  | 14 | Chrome silicon    | peened   |
| 125 | EYÜP YALUK              | 3 | 3 | 16 | 2 | 1432 | 99.9  | 2.75 | 6 | 78 | 14 | 13 | Music wire        | peened   |
| 126 | İBRAHİM YAMAN           | 4 | 4 | 20 | 2 | 1275 | 99.99 | 3    | 5 | 76 | 12 | 12 | BS 5216 Grade 4   | peened   |
| 127 | MUHAMMET MUSTAFA YAN    | 4 | 4 | 18 | 1 | 1034 | 90    | 2    | 6 | 72 | 13 | 11 | Oil tempered wire | peened   |
| 128 | İBRAHİM OĞUZHAN YILMAZ  | 5 | 4 | 18 | 1 | 1273 | 95    | 2.25 | 5 | 65 | 14 | 13 | Music wire        | peened   |
| 129 | ZÜLKÜF YİĞİTALP         | 5 | 4 | 17 | 2 | 1295 | 99    | 2.5  | 6 | 51 | 11 | 14 | BS 5216 Grade 4   | peened   |
| 130 | MUSTAFA HÜSEYİN ZEYTUN  | 4 | 4 | 20 | 2 | 1264 | 99.9  | 2.75 | 4 | 63 | 11 | 12 | Oil tempered wire | unpeened |

ME 308

MACHINE ELEMENTS II

2021-2022 FIRST PROJECT EXTENSION & COMPRESSION SPRING(ET)

| NO | SURNAME, NAME    | Lpipe | mpipe | Dp | t | density | R     | n    | Na min | D washer | d rod | y max | Spring Material   | Springs are |
|----|------------------|-------|-------|----|---|---------|-------|------|--------|----------|-------|-------|-------------------|-------------|
| 1  | BERKAY ACIR      | 3     | 3     | 18 | 1 | 1464    | 90    | 2.5  | 6      | 50       | 15    | 13    | Oil tempered wire | peened      |
| 2  | DEVİRİM AÇIKEL   | 3     | 3     | 18 | 1 | 1159    | 90    | 2    | 6      | 63       | 9     | 11    | Hard drawn wire   | unpeened    |
| 3  | OĞUZHAN ADIGÜZEL | 4     | 3     | 17 | 3 | 1421    | 95    | 2.25 | 5      | 78       | 14    | 11    | Chrome vanadium   | peened      |
| 4  | BİLAL AFOURA     | 3     | 4     | 20 | 3 | 1176    | 99    | 2.5  | 6      | 70       | 11    | 12    | Chrome silicon    | peened      |
| 5  | ZELİHA AKARSU    | 3     | 2     | 16 | 2 | 1024    | 99.9  | 2.75 | 5      | 67       | 15    | 14    | Music wire        | peened      |
| 6  | BERKAY AKAY      | 5     | 4     | 16 | 1 | 1387    | 99.99 | 3    | 5      | 77       | 12    | 14    | BS 5216 Grade 4   | peened      |

|    |                        |   |   |    |   |      |       |      |   |    |    |    |                   |          |
|----|------------------------|---|---|----|---|------|-------|------|---|----|----|----|-------------------|----------|
| 7  | HALİL İBRAHİM AKDEMİR  | 3 | 3 | 19 | 3 | 1111 | 90    | 2    | 5 | 69 | 14 | 14 | Oil tempered wire | peened   |
| 8  | ÖZNUR AKDIŞ            | 3 | 2 | 16 | 1 | 1187 | 95    | 2.25 | 4 | 50 | 11 | 14 | Oil tempered wire | peened   |
| 9  | MIZGIN AKGÜL           | 5 | 2 | 18 | 1 | 1023 | 99    | 2.5  | 4 | 71 | 13 | 12 | Hard drawn wire   | unpeened |
| 10 | COŞKUN CAN AKSOY       | 5 | 2 | 17 | 3 | 1460 | 99.9  | 2.75 | 5 | 67 | 11 | 12 | Chrome vanadium   | peened   |
| 11 | DENİZ AKYILDIZ         | 5 | 3 | 19 | 2 | 1304 | 99.99 | 3    | 6 | 56 | 12 | 11 | Chrome silicon    | peened   |
| 12 | OMAR AL AZZI           | 5 | 2 | 18 | 3 | 1485 | 90    | 2    | 6 | 61 | 13 | 11 | Music wire        | peened   |
| 13 | AMER ALBOUSHI          | 3 | 2 | 20 | 3 | 1423 | 95    | 2.25 | 5 | 58 | 14 | 10 | BS 5216 Grade 4   | peened   |
| 14 | METEHAN ARAS           | 3 | 3 | 17 | 3 | 1245 | 99    | 2.5  | 4 | 55 | 15 | 13 | Oil tempered wire | peened   |
| 15 | MUSTAFA ARAY           | 5 | 3 | 17 | 2 | 1036 | 99.9  | 2.75 | 4 | 59 | 12 | 10 | Oil tempered wire | unpeened |
| 16 | MUSTAFA ARSLAN         | 5 | 4 | 19 | 1 | 1381 | 99.99 | 3    | 5 | 75 | 12 | 14 | Hard drawn wire   | peened   |
| 17 | BURAK ASLANER          | 4 | 3 | 18 | 3 | 1009 | 99.9  | 2.5  | 6 | 55 | 13 | 11 | Chrome vanadium   | peened   |
| 18 | ATAKAN AYDIN           | 5 | 3 | 20 | 3 | 1239 | 99.99 | 2.75 | 5 | 79 | 9  | 11 | Chrome silicon    | peened   |
| 19 | AYŞE NUR AYDIN         | 4 | 3 | 18 | 1 | 1101 | 90    | 3    | 4 | 65 | 8  | 12 | Music wire        | peened   |
| 20 | TAHA FURKAN AYDIN      | 4 | 2 | 17 | 3 | 1418 | 95    | 2    | 6 | 56 | 13 | 11 | BS 5216 Grade 4   | peened   |
| 21 | İBRAHİM BAKIR          | 4 | 2 | 17 | 1 | 1414 | 99    | 2.25 | 6 | 78 | 12 | 10 | Oil tempered wire | unpeened |
| 22 | AYŞENUR BAŞIBÖYÜK      | 3 | 2 | 19 | 2 | 1334 | 99.9  | 2.5  | 6 | 68 | 13 | 11 | Oil tempered wire | unpeened |
| 23 | RECEP BEKTAŞ           | 5 | 2 | 18 | 2 | 1418 | 99.99 | 2.75 | 5 | 79 | 9  | 10 | Hard drawn wire   | unpeened |
| 24 | TOLUNAY BOYAM          | 3 | 3 | 19 | 3 | 1477 | 90    | 3    | 5 | 70 | 11 | 14 | Chrome vanadium   | unpeened |
| 25 | BESTAMİ BURGAÇ         | 5 | 4 | 20 | 1 | 1294 | 95    | 2    | 6 | 66 | 11 | 10 | Chrome silicon    | unpeened |
| 26 | TAHA ANIL BÜYÜKERDEM   | 5 | 3 | 17 | 3 | 1293 | 99    | 2.5  | 6 | 71 | 10 | 14 | Music wire        | peened   |
| 27 | SÜLEYMAN MERT CALBAN   | 4 | 4 | 19 | 3 | 1118 | 99.9  | 2.75 | 5 | 69 | 9  | 11 | BS 5216 Grade 4   | peened   |
| 28 | BURAK COŞAN            | 3 | 2 | 20 | 2 | 1150 | 99.99 | 3    | 6 | 62 | 11 | 11 | Oil tempered wire | peened   |
| 29 | GÖRKEM ÇALAĞ           | 3 | 2 | 20 | 1 | 1185 | 99    | 2    | 6 | 64 | 15 | 14 | Oil tempered wire | peened   |
| 30 | ALİ İHSAN DENİZ ÇAVDAR | 3 | 3 | 17 | 2 | 1489 | 99.9  | 2.25 | 5 | 78 | 14 | 14 | Hard drawn wire   | unpeened |
| 31 | AKIN ÇELEBİ            | 4 | 4 | 19 | 3 | 1043 | 99.99 | 2.5  | 5 | 76 | 10 | 13 | Chrome vanadium   | peened   |
| 32 | BARIŞ ÇELİK            | 5 | 4 | 20 | 2 | 1275 | 90    | 2.75 | 5 | 63 | 11 | 11 | Chrome silicon    | peened   |
| 33 | EGEMEN ÇELİK           | 3 | 3 | 18 | 2 | 1089 | 95    | 3    | 5 | 56 | 11 | 13 | Music wire        | peened   |
| 34 | MURAT ÇELİK            | 3 | 3 | 18 | 1 | 1074 | 99    | 2    | 5 | 74 | 8  | 14 | BS 5216 Grade 4   | peened   |
| 35 | CAHİT ÇUHADAR          | 5 | 2 | 20 | 2 | 1253 | 99.9  | 2.25 | 4 | 66 | 9  | 14 | Oil tempered wire | peened   |
| 36 | ATILLA DAĞ             | 5 | 4 | 20 | 1 | 1480 | 99.99 | 2.5  | 5 | 60 | 15 | 14 | Oil tempered wire | peened   |
| 37 | SİNAN DAĞDELEN         | 5 | 2 | 19 | 1 | 1152 | 90    | 2.75 | 4 | 63 | 8  | 11 | Hard drawn wire   | peened   |
| 38 | TAHSİN DEMİRAY         | 5 | 3 | 20 | 1 | 1209 | 95    | 3    | 6 | 68 | 14 | 12 | Chrome vanadium   | unpeened |
| 39 | MEHMET YAŞIN DEMİRCAN  | 4 | 4 | 19 | 2 | 1101 | 99    | 2.5  | 5 | 68 | 8  | 14 | Chrome silicon    | peened   |
| 40 | UMUT DEMİRCİ           | 3 | 3 | 16 | 2 | 1432 | 99.9  | 2.75 | 6 | 78 | 14 | 13 | Music wire        | peened   |
| 41 | MUSTAFA DEMİRELLİ      | 4 | 4 | 20 | 2 | 1275 | 99.99 | 3    | 5 | 76 | 12 | 12 | BS 5216 Grade 4   | peened   |
| 42 | LEVENT DEMİRTEPE       | 4 | 4 | 18 | 1 | 1034 | 90    | 2    | 6 | 72 | 13 | 11 | Oil tempered wire | peened   |
| 43 | MERVE DERE             | 5 | 4 | 18 | 1 | 1273 | 95    | 2.25 | 5 | 65 | 14 | 13 | Music wire        | peened   |
| 44 | MEHMET KAAAN DOĞAN     | 5 | 4 | 17 | 2 | 1295 | 99    | 2.5  | 6 | 51 | 11 | 14 | BS 5216 Grade 4   | peened   |

|    |                          |   |   |    |   |      |       |      |   |    |    |    |                   |          |
|----|--------------------------|---|---|----|---|------|-------|------|---|----|----|----|-------------------|----------|
| 45 | ENES DORUKER             | 4 | 4 | 20 | 2 | 1264 | 99.9  | 2.75 | 4 | 63 | 11 | 12 | Oil tempered wire | unpeened |
| 46 | UĞUR ENCAMI              | 4 | 2 | 16 | 2 | 1368 | 99.99 | 3    | 6 | 69 | 14 | 14 | Oil tempered wire | peened   |
| 47 | ÖZCAN ERDAL              | 5 | 4 | 20 | 2 | 1448 | 90    | 2    | 6 | 66 | 8  | 12 | Hard drawn wire   | peened   |
| 48 | YAŞAR DOĞUKAN ERDAL      | 3 | 2 | 19 | 2 | 1366 | 95    | 2.25 | 4 | 71 | 11 | 12 | Chrome vanadium   | peened   |
| 49 | ABDULLAH ERDOĞAN         | 5 | 4 | 20 | 3 | 1383 | 99    | 2.5  | 6 | 72 | 9  | 12 | Chrome silicon    | peened   |
| 50 | ALİ GENÇ                 | 3 | 2 | 19 | 1 | 1001 | 99.9  | 2.75 | 5 | 67 | 10 | 12 | Music wire        | peened   |
| 51 | ÇAĞATAY GEVREK           | 3 | 4 | 18 | 1 | 1347 | 99.99 | 3    | 4 | 72 | 8  | 12 | BS 5216 Grade 4   | unpeened |
| 52 | SERCAN GEVREK            | 3 | 3 | 19 | 3 | 1436 | 99.99 | 2    | 4 | 51 | 12 | 13 | Oil tempered wire | unpeened |
| 53 | REMZİ BERKAY GÖÇKEN      | 5 | 3 | 20 | 2 | 1322 | 90    | 2.25 | 6 | 70 | 12 | 14 | Oil tempered wire | unpeened |
| 54 | KAZIM GÖKCEN             | 4 | 2 | 17 | 3 | 1104 | 95    | 2.5  | 4 | 61 | 10 | 14 | Hard drawn wire   | unpeened |
| 55 | KEMAL GÖKTAŞ             | 5 | 3 | 18 | 3 | 1121 | 99    | 2.75 | 5 | 56 | 8  | 10 | Chrome vanadium   | unpeened |
| 56 | ŞİH ALİ GÖREN            | 4 | 3 | 19 | 2 | 1114 | 99.9  | 3    | 6 | 61 | 14 | 13 | Chrome silicon    | unpeened |
| 57 | NURTEN GÜNDOĞDU          | 4 | 4 | 16 | 3 | 1367 | 99.99 | 2.5  | 5 | 75 | 11 | 12 | Music wire        | peened   |
| 58 | İSA GÜNDÜZ               | 5 | 4 | 20 | 1 | 1331 | 90    | 2.75 | 5 | 56 | 11 | 12 | BS 5216 Grade 4   | peened   |
| 59 | KADRIYE İREM GÜNEŞ       | 3 | 2 | 18 | 1 | 1072 | 95    | 2    | 5 | 68 | 10 | 13 | Oil tempered wire | peened   |
| 60 | MELİH GÜNGÖR             | 4 | 3 | 17 | 3 | 1299 | 99    | 2.25 | 5 | 53 | 14 | 11 | Oil tempered wire | peened   |
| 61 | AHMET YİĞİT HAN          | 3 | 3 | 19 | 3 | 1109 | 99.9  | 2.5  | 6 | 75 | 9  | 10 | Hard drawn wire   | peened   |
| 62 | BİLAL EMRE HİZMETÇİ      | 3 | 2 | 19 | 3 | 1162 | 99.99 | 2.75 | 5 | 64 | 10 | 10 | Chrome vanadium   | unpeened |
| 63 | CANSEL HURİYETOĞLU       | 3 | 4 | 20 | 3 | 1119 | 99    | 3    | 6 | 65 | 8  | 14 | Oil tempered wire | unpeened |
| 64 | MEHMET ALİ HÜRİYETOĞLU   | 3 | 3 | 17 | 2 | 1344 | 99.9  | 2    | 4 | 53 | 14 | 13 | Hard drawn wire   | unpeened |
| 65 | İLKER MERT İLHAN         | 4 | 3 | 18 | 3 | 1085 | 99.99 | 2.25 | 6 | 62 | 11 | 10 | Chrome vanadium   | unpeened |
| 66 | KEMAL İYİSARAÇ           | 4 | 4 | 16 | 2 | 1228 | 90    | 2.5  | 5 | 78 | 11 | 14 | Chrome silicon    | unpeened |
| 67 | MERT KAHVECİ             | 4 | 3 | 18 | 3 | 1077 | 95    | 2.75 | 4 | 61 | 12 | 14 | Music wire        | unpeened |
| 68 | ATAKAN FATİH KALE        | 5 | 2 | 17 | 2 | 1207 | 99    | 3    | 4 | 77 | 11 | 12 | BS 5216 Grade 4   | peened   |
| 69 | SEMİH KAPLAN             | 4 | 4 | 17 | 1 | 1048 | 99.9  | 2.5  | 4 | 62 | 10 | 11 | Oil tempered wire | peened   |
| 70 | TURGAY KARABULUT         | 4 | 3 | 16 | 1 | 1007 | 99.99 | 2.75 | 6 | 59 | 10 | 13 | Oil tempered wire | peened   |
| 71 | MEHMET EMRE KARACALIOĞLU | 4 | 4 | 16 | 2 | 1016 | 90    | 3    | 4 | 55 | 12 | 13 | Hard drawn wire   | peened   |
| 72 | YUNUS EKİM KARADENİZ     | 4 | 4 | 20 | 1 | 1083 | 95    | 2    | 4 | 76 | 11 | 12 | Chrome vanadium   | peened   |
| 73 | İSMET KAYA               | 3 | 3 | 20 | 3 | 1057 | 99    | 2.25 | 4 | 75 | 8  | 14 | Chrome silicon    | unpeened |
| 74 | NECMETTİN KAYA           | 5 | 2 | 16 | 1 | 1347 | 99.9  | 2.5  | 4 | 56 | 12 | 13 | Music wire        | unpeened |
| 75 | MUSTAFA BERKAY KAYMAZ    | 5 | 4 | 19 | 3 | 1119 | 99.99 | 2.75 | 6 | 69 | 8  | 13 | Oil tempered wire | unpeened |
| 76 | ÖMER KENNES              | 5 | 3 | 19 | 3 | 1125 | 90    | 3    | 6 | 57 | 8  | 12 | Hard drawn wire   | unpeened |
| 77 | ABDULLAH KERİMOĞLU       | 4 | 4 | 18 | 2 | 1434 | 90    | 2    | 4 | 79 | 10 | 12 | Chrome vanadium   | unpeened |
| 78 | EKREM KESER              | 4 | 3 | 18 | 1 | 1257 | 95    | 2    | 4 | 69 | 9  | 12 | Chrome silicon    | unpeened |
| 79 | NİYAZİ KIRAÇ             | 5 | 2 | 20 | 3 | 1085 | 99    | 2.25 | 5 | 60 | 8  | 14 | Music wire        | peened   |
| 80 | ALİ NAKİ KOŞDAŞ          | 4 | 2 | 17 | 3 | 1360 | 99.9  | 2.5  | 4 | 72 | 11 | 11 | BS 5216 Grade 4   | peened   |
| 81 | HASAN ENES KÖK           | 5 | 4 | 19 | 2 | 1134 | 99.99 | 2.75 | 4 | 60 | 11 | 13 | Oil tempered wire | peened   |
| 82 | NECİP AHMET KÖROĞLU      | 5 | 2 | 20 | 3 | 1422 | 90    | 3    | 5 | 59 | 9  | 14 | Oil tempered wire | peened   |

|     |                         |   |   |    |   |      |       |      |   |    |    |    |                   |          |
|-----|-------------------------|---|---|----|---|------|-------|------|---|----|----|----|-------------------|----------|
| 83  | ENES BERKAY KURT        | 3 | 3 | 19 | 2 | 1010 | 95    | 2    | 5 | 54 | 15 | 11 | Oil tempered wire | peened   |
| 84  | MUSTAFA MERT METİN      | 3 | 3 | 19 | 3 | 1342 | 99    | 2.25 | 5 | 66 | 8  | 11 | Hard drawn wire   | unpeened |
| 85  | MERT OĞUZ               | 3 | 3 | 17 | 2 | 1016 | 99.9  | 2.5  | 4 | 72 | 8  | 14 | Chrome vanadium   | unpeened |
| 86  | KAYHAN OKUR             | 5 | 2 | 19 | 3 | 1054 | 99.99 | 2.75 | 5 | 77 | 10 | 10 | Chrome silicon    | unpeened |
| 87  | SERMEST OKUŞLUK         | 5 | 3 | 19 | 3 | 1144 | 99.99 | 2.5  | 4 | 50 | 12 | 12 | Chrome silicon    | peened   |
| 88  | HAKAN ÖNDER             | 3 | 2 | 17 | 1 | 1081 | 90    | 2.75 | 6 | 61 | 14 | 10 | Oil tempered wire | unpeened |
| 89  | AHMET CEVDET ÖZBAY      | 4 | 3 | 19 | 2 | 1261 | 95    | 3    | 7 | 80 | 10 | 12 | Hard drawn wire   | unpeened |
| 90  | HAKAN ÖZCAN             | 4 | 4 | 16 | 3 | 1140 | 99    | 2.5  | 5 | 72 | 10 | 10 | Hard drawn wire   | peened   |
| 91  | İBRAHİM ÖZÇERÇİOĞLU     | 4 | 3 | 20 | 2 | 1204 | 99.9  | 2    | 7 | 50 | 9  | 14 | Chrome vanadium   | unpeened |
| 92  | OZAN ÖZEŞME             | 4 | 2 | 20 | 1 | 1070 | 99.99 | 2.25 | 6 | 58 | 11 | 12 | Chrome silicon    | unpeened |
| 93  | HALİL SAMED ÖZYURTSEVEN | 3 | 3 | 19 | 3 | 1304 | 99.9  | 2.5  | 6 | 55 | 11 | 10 | Oil tempered wire | unpeened |
| 94  | YÜKSEL PAYASLI          | 4 | 4 | 20 | 1 | 1113 | 99.99 | 2.75 | 7 | 58 | 13 | 13 | Hard drawn wire   | unpeened |
| 95  | HALİL İBRAHİM POLAT     | 3 | 3 | 19 | 3 | 1095 | 90    | 3    | 7 | 75 | 13 | 11 | Chrome vanadium   | unpeened |
| 96  | NAİM SAHİLLİOĞLU        | 4 | 3 | 18 | 1 | 1408 | 95    | 2.5  | 5 | 71 | 9  | 14 | Chrome silicon    | unpeened |
| 97  | YEŞİM SARIKAYA          | 4 | 2 | 17 | 3 | 1137 | 99    | 2    | 4 | 80 | 10 | 12 | Music wire        | unpeened |
| 98  | MERVE GÖRKEM SARIOĞLU   | 4 | 2 | 16 | 3 | 1377 | 99.9  | 2.25 | 6 | 78 | 14 | 12 | BS 5216 Grade 4   | unpeened |
| 99  | YİĞİT SAYIM             | 5 | 4 | 19 | 3 | 1031 | 99.99 | 2.5  | 4 | 74 | 10 | 13 | Oil tempered wire | unpeened |
| 100 | EMİRHAN SERKAYA         | 3 | 3 | 16 | 1 | 1306 | 90    | 2.75 | 4 | 53 | 12 | 13 | Hard drawn wire   | unpeened |
| 101 | KÜRŞAT SEZGİN           | 4 | 3 | 20 | 1 | 1022 | 95    | 3    | 6 | 53 | 14 | 13 | Chrome vanadium   | unpeened |
| 102 | HAKAN SÖKÜCÜ            | 5 | 3 | 18 | 1 | 1343 | 99    | 2.5  | 6 | 58 | 10 | 10 | Chrome silicon    | unpeened |
| 103 | ÖKKEŞ EMRE SÖNMEZ       | 5 | 2 | 20 | 3 | 1290 | 99.9  | 2    | 4 | 80 | 9  | 12 | Music wire        | unpeened |
| 104 | KUBİLAY SUCU            | 4 | 3 | 20 | 3 | 1363 | 99.99 | 2.25 | 7 | 68 | 15 | 14 | BS 5216 Grade 4   | unpeened |
| 105 | ALİ TALAY               | 5 | 2 | 20 | 2 | 1047 | 99    | 2.5  | 6 | 53 | 9  | 10 | Oil tempered wire | unpeened |
| 106 | SADIK TAN               | 4 | 3 | 18 | 3 | 1136 | 99.9  | 2.75 | 4 | 70 | 15 | 12 | Hard drawn wire   | unpeened |
| 107 | MUSTAFA ÖZGÜR TEKİK     | 3 | 3 | 18 | 1 | 1336 | 99.99 | 3    | 4 | 58 | 13 | 12 | Chrome vanadium   | unpeened |
| 108 | AHMET FURKAN TOK        | 5 | 4 | 20 | 3 | 1119 | 90    | 2.5  | 5 | 64 | 12 | 11 | Oil tempered wire | peened   |
| 109 | BURAK TOPALBEKİROĞLU    | 5 | 3 | 19 | 1 | 1467 | 95    | 2.75 | 4 | 76 | 11 | 13 | Hard drawn wire   | unpeened |
| 110 | İBRAHİM TOPRAK          | 4 | 2 | 17 | 2 | 1467 | 99    | 3    | 4 | 69 | 14 | 14 | Chrome vanadium   | peened   |
| 111 | KENAN YUSUF TURGUT      | 3 | 3 | 20 | 3 | 1425 | 99.9  | 2.5  | 5 | 54 | 9  | 13 | Chrome silicon    | unpeened |
| 112 | MÜCAHİD ENES TÜMER      | 3 | 4 | 18 | 2 | 1048 | 99.99 | 2    | 4 | 78 | 10 | 10 | Music wire        | peened   |
| 113 | KÜBRA ULUTAŞ            | 4 | 2 | 19 | 3 | 1010 | 90    | 2.25 | 7 | 71 | 12 | 14 | BS 5216 Grade 4   | unpeened |
| 114 | MÜCAHİT ÜRGEN           | 3 | 2 | 16 | 2 | 1157 | 95    | 2.5  | 7 | 70 | 14 | 12 | Oil tempered wire | peened   |
| 115 | EMRE ÜSTÜN              | 5 | 3 | 18 | 2 | 1032 | 99    | 2.75 | 7 | 70 | 13 | 10 | Hard drawn wire   | unpeened |
| 116 | MUHAMMED YAŞAR          | 4 | 4 | 18 | 3 | 1438 | 99.9  | 3    | 6 | 54 | 15 | 11 | Chrome vanadium   | peened   |
| 117 | MEHMET ONUR YAVUZ       | 4 | 3 | 19 | 3 | 1249 | 99.99 | 2.5  | 4 | 52 | 13 | 13 | Chrome silicon    | unpeened |
| 118 | ERKAN YILDIRIM          | 5 | 4 | 18 | 3 | 1037 | 90    | 2    | 5 | 54 | 13 | 13 | Music wire        | peened   |
| 119 | ABDULLAH YILDIZ         | 5 | 2 | 20 | 3 | 1434 | 95    | 2.25 | 6 | 72 | 14 | 13 | BS 5216 Grade 4   | unpeened |
| 120 | İSMAİL HAKKI YILDIZ     | 3 | 3 | 17 | 1 | 1417 | 99    | 2.5  | 5 | 78 | 8  | 10 | BS 5216 Grade 5   | peened   |

|     |                     |   |   |    |   |      |       |      |   |    |    |    |                   |          |
|-----|---------------------|---|---|----|---|------|-------|------|---|----|----|----|-------------------|----------|
| 121 | ALİ YILMAZ          | 5 | 3 | 18 | 2 | 1329 | 99.9  | 2.75 | 7 | 64 | 11 | 10 | Oil tempered wire | unpeened |
| 122 | BEKİR YİĞİT         | 4 | 4 | 20 | 3 | 1112 | 99.99 | 3    | 7 | 72 | 14 | 11 | Hard drawn wire   | peened   |
| 123 | MUSTAFA YASİN YİĞİT | 4 | 2 | 17 | 3 | 1419 | 90    | 2.5  | 6 | 69 | 13 | 10 | Chrome silicon    | unpeened |
| 124 | ABDULLAH CAN YÜNCÜ  | 4 | 2 | 20 | 1 | 1300 | 95    | 2.75 | 6 | 62 | 12 | 14 | Hard drawn wire   | peened   |